

REPORT OF THE 401ST CELL EXCHANGE

NOVEMBER 7, 2017

B-cell Lines	543-544
Cells	1601-1604
Sera	1229-1232

B-cell Line Exchange #272

The results for B-cell Line Exchange #272 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 8. We are most grateful to the generosity of Leiden University Medical Centre, Leiden and to Welsh Blood Service, Pontyclun Wales for sharing the

interesting cells studied in this Exchange.

We would also like to acknowledge and thank the labs performing NGS typing for sharing their results and encourage other NGS labs to share their findings.

Ter-543. The consensus type for this sample is DRB1*01:03-DRB1*11:29-DRB3*02:02-DQA1*01:01-DQA1*05:05-DQB1*03:01-DQB1*05:01-DPA1*03:01-DPB1*02:01/A*02:01-A*29:02-B*18:01-B*44:02-C*05:01-C*07:01. No race information is available for this sample. One possible class II association present in this cell is DRB1*01:03-DQA1*01:01-DQB1*05:01, observed in numerous exchange cells, most recently Ter 509 (same as Ter 270 and Ter 73) and Ter 497 (same as Ter 387). The other class II association likely present is DRB1*11:29-DRB3*02:02-DQA1*05:05-DQB1*03:01.

This sample was previously typed as Ter 428 (2009), Ter 310 (2002), and Ter 290 (2001). We congratulate Rao for correctly identifying this cell as being previously studied. In this present retyping, DRB1*11:29 was reported in complete consensus, with 10 labs assigning DRB1*11:29:01. In 2009, DRB1*11:01 was misassigned by 2 labs. DRB1*01:03 (100%) was reported as the second DRB1 type. DQA1*05:05 and DQB1*03:01 were each assigned by 100% of labs reporting at high resolution, an improvement from the 2009 typing, in which 12 labs assigned DQA1*05:05/09 and 5 labs assigned DQB1*03:01/19. DQA1*01:01 (100%) and DQB1*05:01 (100%) were assigned as the second DQA1 and DQB1 types. The class I types were reported as A*02:01 (100%), A*29:02 (100%), B*18:01 (100%), B*44:02 (100%), C*05:01 (100%), and C*07:01 (100%). A number (n=4) of NGS labs reported higher resolution results, assigning A*02:01:01:01, A*29:02:01:01, B*18:01:01:02, B*44:02:01:01, C*05:01:01:02, C*07:01:01:01.

Ter-544. The consensus type for this sample from a Caucasian donor is DRB1*07:01-DRB1*11:19-DRB3*02:02-DRB4*01:03-DQA1*02:01-DQA1*05:05-DQB1*02:02-DQB1*03:01-DPA1*01:03-DPB1*02:01-DPB1*04:01/A*02:01-A*24:02-B*07:02-B*13:02-C*06:02-C*07:02. One possible class II association present in this cell is DRB1*07:01-DRB4*01:03-DQA1*02:01-DQB1*02:02, observed in previous exchange cells, Ter 519 (same as Ter 416) and the workshop cell IHW#9431 (same as Ter 427 and Ter 307). DRB1*11:19-DRB3*02:02-DQA1*05:05-DQB1*03:01 is the other likely class II association present, which was observed in Ter 483 (same as Ter 298, 278, and 217).

This cell was studied multiple times in the exchange, as Ter 502 (2014), Ter 408 (2008), and Ter 297 (2002), as correctly identified by Rao. Similar to the 2014 study, DRB1*11:19 (DRB1*11:19:01) (97%) was once again well assigned, by labs reporting at high resolution. DRB1*07:01 (100%) was reported as the second DRB1 type, with 9 labs assigning DRB1*07:01:01. DQA1*02:01 DQA1*05:05, DQB1*02:02, and DQB1*03:01 were each reported in complete consensus, with 6 labs assigning DQA1*02:01:01 and DQA1*05:05:01, 9 labs assigning DQB1*02:02:01, and 8 labs assigning DQB1*03:01:01. A*02:01, A*24:02, B*07:02, B*13:02, C*06:02, and C*07:02 were each assigned in complete consensus, with 6 labs assigning A*24:02:01 and B*07:02:01, and 7 labs assigning A*02:01:01, B*13:02:01, C*06:02:01, and C*07:02:01.

Table 1: Summary of the 272nd B-cell Line Exchange

Ter-543

DNA Typing - class II	37 labs High; 31 labs low-DRB1	%(n)	21 labs High; 23 labs Low-DRB3/4/5	%(n)	20 labs High; 27 labs Low-DQA1	%(n)	32 High Labs; 30 labs Low-DQB1	%(n)	14 High Labs; 13 labs Low-DPA1	%(n)	29 High Labs; 17 labs Low-DPB1	%(n)
	DRB1*01:03	100(37)	DRB3*02:02:01	24(5)	DQA1*01:01:01:03	5 (1)	DQB1*03:01:01:03	9 (3)	DPA1*01:03:01:01	29(4)	DPB1*02:01:02	24(7)
	DRB1*103	10(3)	DRB3*02:02	76(16)	DQA1*01:01:01	25(5)	DQB1*03:01:01	16(5)	DPA1*01:03:01	7 (1)	DPB1*02:01:02G	3 (1)
	DRB1*01	90(28)	DRB3*02	87(20)	DQA1*01:01	70(14)	DQB1*03:01:01G	6 (2)	DPA1*01:03	64(9)	DPB1*02:01G	3 (1)
			DRB3*PRESENT	13(3)	DQA1*01	100(27)	DQB1*03:01	69(22)	DPA1*01	100(13)	DPB1*02:01P	3 (1)
							DQB1*03(DQ7)	3 (1)			DPB1*02:01	66(19)
							DQB1*03	97(29)			DPB1*02(DP201)	53(9)
											DPB1*02	47(8)
DNA Typing - class I	33 labs High; 32 labs low-DRB1	%(n)	22 labs High; 23 labs low- A	%(n)	22 labs High; 23 labs Low-DQA1	%(n)	32 High Labs; 30 labs Low-DQB1	%(n)				
	DBR1*11:29:01	30(10)	A*02:01:01:01	14(3)	DQA1*05:05:01:01	10(2)	DQB1*05:01:01:03	9(3)				
	DBR1*11:29	70(23)	A*02:01:01	18(4)	DQA1*05:05:01	19(4)	DQB1*05:01:01	19(6)				
	DRB1*11	100(32)	A*02:01:01G	5 (1)	DQA1*05:05	71(15)	DQB1*05:01	72(23)				
			A*02	100(23)	DQA1*05	100(26)	DQB1*05	100(30)				

Table 2: Summary of the 272nd B-cell Line Exchange

Ter-544

DNA Typing - class II		DNA Typing - class I	
DNA Typing - class II	34 labs High; 32 labs low-DRB1	20 labs High; 23 labs Low-DRB3/4/5	21 labs High; 26 labs Low-DQA1
	DRB1*07:01:01:01	DRB3*02:02:01:02	DQA1*02:01:01:01
	DRB1*07:01:01	DRB3*02:02:01	DQA1*02:01:01
	DRB1*07:01:01G	DRB3*02:02:01G	DQA1*02:01
	DRB1*07:01	DRB3*02:02	DQA1*02
	DRB1*07	DRB3*02	
		DRB3*PRESENT	
DNA Typing - class I	34 labs High; 32 labs low-DRB1	20 labs High; 23 labs Low-DRB3/4/5	21 labs High; 26 labs Low-DQA1
	DRB1*11:19:01	DRB4*01:01:01G	DQA1*05:05:01:01
	DRB1*11:19	DRB4*01:03:01	DQA1*05:05:01:02
	DRB1*11:29	DRB4*01:03	DQA1*05:05:01
	DRB1*11	DRB4*01	DQA1*05:05
		DRB4*PRESENT	DQA1*05
DNA Typing - class II	33 High Labs; 30 labs Low-DQB1	14 High Labs; 13 labs Low-DPA1	29 High Labs; 17 labs Low-DPB1
	DQB1*02:02:01	DPA1*01:03:01:01	DPB1*02:01:02
	DQB1*02:02	DPA1*01:03:01	DPB1*02:01:02G
	DQB1*02	DPA1*01:03	DPB1*02:01G
		DPA1*01	DPB1*02:01
			DPB1*02(DP201)
			DPB1*02
DNA Typing - class I	33 High Labs; 30 labs Low-DQB1	14 High Labs; 13 labs Low-DPA1	29 High Labs; 17 labs Low-DPB1
	DQB1*03:01:01:03	DPA1*01:03:01:01	DPB1*04:01:01:01
	DQB1*03:01:01	DPA1*01:03:01	DPB1*04:01:01:02
	DQB1*03:01:01G	DPA1*01:03	DPB1*04:01:01
	DQB1*03:01	DPA1*01	DPB1*04:01:01G
	DQB1*03(DQ7)		DPB1*04:01G
	DQB1*03		DPB1*04:01
			DPB1*04(DP401)
			DPB1*04
DNA Typing - class I	22 labs High; 23 labs low- A	22 labs High; 23 labs low- B	22 labs High; 23 labs low- C
	A*02:01:01:01	B*07:02:01	C*06:02:01:01
	A*02:01:01	B*07:02:01G	C*06:02:01
	A*02:01:01G	B*07:02	C*06:02:01G
	A*02:01	B*07	C*06:02
	A*02		C*06
DNA Typing - class I	22 labs High; 23 labs low- A	22 labs High; 23 labs low- B	22 labs High; 23 labs low- C
	A*24:02:01:01	B*13:02:01	C*07:02:01:03
	A*24:02:01	B*13:02	C*07:02:01
	A*24:02:01G	B*13	C*07:02:01G
	A*24:02		C*07:02
	A*24		C*07

Table 3a: Individual laboratory results for B-cell #543-Class II

Low resolution																
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
5488	Adams , Sharon			3*02		*01								SSP SSO SBT		
5462	Arnold , Paula	*01	*11	3*02	NP	*01	*05	*03	*05	*01		*02(DP201)	*02(DP201)	SSO		
774	Cecka , J. Michael	*01	*11	3*02		*01	*05	*03	*05	*01		*02(DP201)		SSP SSO		
3632	Colombe , Beth W	*01	*11	3*02		*01	*05	*03	*05	*01		*02		SSP SSO		
5130	Costeas , Paul A.	*01	*11	3*02		*01	*05	*03	*05			*02	*02	SSP SSO NGS		
779	Daniel , Claude	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSP SSO		
5219	Daniel , Dolly	*01	*11			*01	*05	*03	*05					SSO		
87	Di Paola , Nicholas	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	RT-PCR		
5214	Eckels/CPMC ,	*103	*11	3*02		*01	*05	*03(DQ7)	*05	*01		*02(DP201)		RT-PCR		
747	Ferrari-Lacruz , Sy	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02	*02	SSP SSO NGS		
4079	Fort , Marylise	*01	*11					*03	*05					SSP		
792	Gandhi , Manish	*103	*11	3*02		*01	*05	*03	*05	*01		*02		SSO SBT		
8043	Gideoni , Osnat	*01	*11			*01	*05	*03	*05					SSP SSO		
810	Hamdi , Nuha		*11			*01	*05	*03	*05							
8087	Hernandez Rosale	*01	*11			*01	*05	*03	*05					SSO		
771	Israel , Shoshana	*01	*11			*01	*05	*03	*05					SSP SSO		
794	Jaatinen , Taina	*01	*11	3*02		*01	*05	*03	*05	*01		*02		SSP SSO SBT		
725	Lardy , N.M.	*01	*11	3*PRESENT		*01	*05	*03	*05					RT-PCR		
278	Lee , Jar-How	*01	*11	3*02	NT	*01	*05	*03	*05	*01	*01	*02	*02	SSO		
6649	Lim , Young Ae	*01	*11	3*PRESENT	5*PRESENT									SSP		
2400	Liu , Chang	*01	*11	3*02		*01	*05	*03	*05			*02		SSP SSO SBT		
731	Loewenthal , Ron	*01	*11			*01	*05	*03	*05					SSP SSO SBT		
206	McAlack , Robert	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02				
735	Moussa , Omar	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSO		
3966	Permpikul , Vejbae													SSP		
8001	Rao , Prakash	*103	*11	3*02		*01	*05	*03	*05							
3519	Renac , Virginie	*01	*11					*03	*05			*02(DP201)		SSP NGS		
793	Rubocki , Ronald	*01	*11	3*02		*01	*05	*03	*05			*02(DP201)		SSP		
4251	Schiller , Jennifer	*01	*11	3*02		*01	*05	*03	*05	*01	*01	*02(DP201)	*02(DP201)	SSO NGS		
8068	Shanmugam , Her	*01	*11	3*02				*03	*05					SSO		
8042	Supino , Lia													SSP SSO		
8029	Tarigopula , Anil	*01	*11			*01	*05	*03	*05					SSO		
5451	Tilanus , Marcel G	*01	*11	3*02		*01	*05	*03	*05					SSP SSO SBT		
5642	Varnavidou-Nicola	*01	*11	3*PRESENT				*03	*05					SSP		
2847	Wakita , Atsushi	*01	*11											SSO		

Table 3b: Individual laboratory results for B-cell #543-Class II

High resolution													
Center	Investigator	DRB1		DRB3/4/5	DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
5488	Adams , Sharon	*01:03	*11:29:01			*05:05	*03:01:01	*05:01:01		*02:01		SSP SSO SBT	
													DPB1*617:01 DPB1*155:01 DPB1*236:01 DPB1*602:01 DPB1*603:01 DPB1*604:01 DPB1*622:01 DPB1*628:01 DPB1*419:01 DPB1*421:01 DPB1*423:01 DPB1*430:01 DPB1*432:01 DPB1*444:01 DPB1*433:01+
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	*02:01P	*02:01	SSO	
5133	Askar , Medhat	*01:03	*11:29:01	3*02:02:01	*01:01:01:03	*05:05:01	*03:01:01	*05:01:01	*01:03:01:01	*02:01:02		SSP NGS	
4492	Caillat-Zucman , S	*01:03	*11:29:01	3*02:02	*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03	*02:01:02		SSP SSO NGS	DPA1*01:13
													DRB3*02:28 DRB3*02:29N DQB1*03:73 DQB1*03:92 DQB1*03:93 DPA1*01:13
774	Cecka , J. Michael	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO	
8070	Chang , Uckjin	*01:03	*11:29									SBT	
9916	Charlton , Ronald	*01:03	*11:29:01	3*02:02			*03:01:01	*05:01:01		*02:01:02		SBT	
3224	Chen , Dong-Feng	*01:03	*11:29	3*02:02	NT	NT	*03:01:01G	*05:01	NT	NT	NT	SBT OTHER	
8021	Clark , Brendan	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		NGS	
3632	Colombe , Beth W	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO	
5130	Costeas , Paul A.	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01	*02:01	SSP SSO NGS	
779	Daniel , Claude	*01:03		3*02:02:01	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSP SSO	
8086	Du , Keming	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSO SBT	
5214	Eckels/CPMC ,									*02:01G		RT-PCR	
3135	Enczmann , J	*01:03	*11:29	3*02:02			*03:01	*05:01		*02:01	*02:01		
747	Ferrari-Lacraz , S	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02	*02:01:02	SSP SSO NGS	
762	Fischer , Gottfried	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02		NGS	
4079	Fort , Marylise	*01:03								*02:01		SSP	
792	Gandhi , Manish	*01:03	*11:29				*03:01	*05:01		*02:01		SSO SBT	
8043	Gideon , Osnat	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01				SSP SSO	
810	Hamdi , Nuha	*01:03											
2344	Hurley & Hartzma	*01:03	*11:29:01		*01:01:01	*05:05:01:01	*03:01:01:03	*05:01:01:03	*01:03:01:01	*02:01:02	*02:01:02	NGS	DQA1*05:05:01:02
771	Israel , Shoshana	*01:03	*11:29				*03:01	*05:01				SSP SSO	

Table 3b: Individual laboratory results for B-cell #543-Class II

High resolution													
Center	Investigator	DRB1		DRB3/4/5	DQA1		DQB1		DPA1	DPB1		METHOD	Other Alleles
794	Jaatinen , Taina	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01		SSP SSO SBT RT-PCR	DQA1*01:04 DQA1*01:05 DPA1*01:13 DQA1*05:09 DQA1*05:11
4337	Kim , Tai-Gyu	*01:03	*11:29				*03:01	*05:01		*02:01	*02:01	SSP SBT	
278	Lee , Jar-How	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01		
2400	Liu , Chang	*01:03	*11:29		*01:01	*05:05	*03:01	*05:01		*02:01:02G		SSP SSO SBT	
731	Loewenthal , Ror	*01:03	*11:29:01				*03:01:01G	*05:01:01				SSP SSO SBT	
3966	Permpikul , Vejba	*01:03	*11:29	3*02:02			*03:01	*05:01				SSP	
8001	Rao , Prakash	*01:03	*11:29	3*02:02			*03:01	*05:01		*02:01			
3753	Reed , Elaine F.	*01:03	*11:29:01	3*02:02:01	*01:01:01	*05:05:01	*03:01:01	*05:01:01	*01:03:01	*02:01:02	*02:01:02	NGS	
3519	Renac , Virginie	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01	*02:01	SSP NGS	
793	Rubocki , Ronald	*01:03			*01:01	*05:05				*02:01		SSP	
4251	Schiller , Jennifer	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01	*01:03	*02:01	*02:01	SSO NGS	
8042	Supino , Lia	*01:03	*11:29	3*02:02			*03:01	*05:01				SSP SSO	
230	Thoni , Deborah	*01:03	*11:29				*03:01	*05:01		*02:01		SSO SBT	
5451	Tilanus , Marcel G	*01:03	*11:29:01									SSP SSO SBT	
5642	Varnavidou-Nicola	*01:03	*11:29				*03:01	*05:01				SSP	DRB1*01:39N
3511	Zeevi , Adriana	*01:03	*11:29	3*02:02	*01:01	*05:05	*03:01	*05:01		*02:01		SSP SSO	

Table 4: Individual laboratory results for B-cell #543-Class II

Serology									
CTR	DIRNAME	DRB1		DRB3/4/5	DQB1		Others		
910	Hahn,Amy B.	DR103	DR11	DR52		DQ7	DQ1	DR13	

Table 5: Individual laboratory results for B-cell #543-Class I															
		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
5488	Adams , Sharon				*44		*07	*02:01:01	*29:02	*18:01:01			*05:01:01	SSP SSO SBT	A*02:01:09 A*02:01:36 C*05:04:01 C*05:36 C*05:43 B*18:25 C*05:01:02 C*05:46 C*05:01:17 C*05:23 B*18:80
5462	Arnold , Paula	*02	*29	*18	*44	*05	*07	NT	NT	NT	NT	NT	NT	SSO	
5133	Askar , Medhat							*02:01:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSP NGS	
4492	Caillat-Zucman , S							*02:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*29	*18	*44	*05	*07							SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald							*02:01:01	*29:02:01	*18:01:01	*44:02	*05:01:01	*07:01:01	SBT	A*02:665, B*18:131
3224	Chen , Dong-Feng							*02:01:01G	*29:02	*18:01:01G	*44:02	*05:01:01G	*07:01:01G	SBT OTHER	
8021	Clark , Brendan							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	NGS	
3632	Colombe , Beth W													SSP SSO	
5130	Costeas , Paul A.	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO NGS	A*29:03
779	Daniel , Claude	*02	*29	*18	*44	*05	*07							SSP SSO	
5219	Daniel , Dolly	*02	*29	*18	*44	*05	*07							SSO	
87	Di Paola , Nicholas	*02	*29	*18	*44	*05	*07							RT-PCR	
8086	Du , Keming							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT	
5214	Eckels/CPMC ,	*02	*29	*18	*44	*05	*07							RT-PCR	
3135	Enczmman , J							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01		A*02:01L C*07:06 C*07:18
747	Ferrari-Lacraz , Sy	*02	*29	*18	*44	*05	*07	*02:01:01:01	*29:02:01:01	*18:01:01	*44:02:01:01	*05:01:01:02	*07:01:01:01	SSP SSO NGS	
762	Fischer , Gottfried													NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT	A*02:01:01:02L B*44:02:01:02S
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*02	*29	*18	*44	*05	*07								
8087	Hernandez Rosale	*02	*29	*18	*44	*05	*07							SSO	
2344	Hurley & Hartzmar							*02:01:01:01	*29:02:01:01	*18:01:01:02	*44:02:01:01	*05:01:01:02	*07:01:01:01	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO SBT RT-PCR	C*07:06 C*07:419 C*07:18 C*07:343
4337	Kim , Tai-Gyu							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SBT	
725	Lardy , N.M.													SSO	
278	Lee , Jar-How	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01		
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO SBT	
731	Loewenthal , Ron													SSP SSO SBT	
206	McAlack , Robert	*02	*29	*18	*44	*05	*07								
735	Moussa , Omar	*02	*29	*18	*44	*05	*07							SSO	

Table 5: Individual laboratory results for B-cell #543-Class I														
		Low resolution						High resolution						
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD
3966	Permpikul , Vejbæ	*02	*29	*18	*44	*05	*07							SSP
8001	Rao , Prakash													
3753	Reed , Elaine F.							*02:01:01	*29:02:01	*18:01:01	*44:02:01	*05:01:01	*07:01:01	NGS
3519	Renac , Virginie	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP NGS
793	Rubocki , Ronald	*02	*29	*18	*44	*05	*07							SSP
4251	Schiller , Jennifer	*02	*29	*18	*44	*05	*07	*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO NGS
8068	Shanmugam , Her	*02	*29	*18	*44	*05	*07							SSO
8042	Supino , Lia							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO
8029	Tarigopula , Anil	*02	*29	*18	*44	*05	*07							SSO
230	Thoni , Deborah							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSO SBT
5451	Tilanus , Marcel G													SSP SSO SBT
5642	Varnavidou-Nicola													SSP
2847	Wakita , Atsushi	*02	*29	*18	*44	*05	*07							SSO
3511	Zeevi , Adriana							*02:01	*29:02	*18:01	*44:02	*05:01	*07:01	SSP SSO

Table 6a: Individual laboratory results for B-cell #544-Class II

		Low resolution													
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharon			3*02	4*01									SSP SSO SBT	
5462	Arnold , Paula	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*04(DP401)	SSO	
774	Cecka , J. Michael	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02(DP201)	*04(DP401)	SSP SSO	
3632	Colombe , Beth W	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02	*04	SSP SSO	
5130	Costeas , Paul A.	*07	*11	3*02	4*01	*02	*05	*02	*03			*02	*04	SSP SSO NGS	
779	Daniel , Claude	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSP SSO	
5219	Daniel , Dolly	*07	*11			*02	*05	*02	*03					SSO	
87	Di Paola , Nicholas	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	RT-PCR	
5214	Eckels/CPMC ,	*07	*11	3*02	4*01	*02	*05	*02	*03(DQ7	*01		*02(DP201)	*04(DP401)	RT-PCR	
747	Ferrari-Lacraz , S	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04	SSP SSO NGS	
4079	Fort , Marylise	*07	*11					*02	*03					SSP	
792	Gandhi , Manish	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04	SSO SBT	
8043	Gideoni , Osnat	*07	*11			*02	*05	*02	*03					SSP SSO	
810	Hamdi , Nuha	*07	*11			*02	*05	*02	*03						
8087	Hernandez Rosale	*07	*11			*02	*05	*02	*03					SSO	
771	Israel , Shoshana	*07	*11			*02	*05	*02	*03					SSP SSO	
														SSP SSO SBT	
794	Jaatinen , Taina	*07	*11	3*02	4*01	*02	*05	*02	*03	*01		*02	*04	RT-PCR	
725	Lardy , N.M.	*07	*11	3*PRESENT	4*01	*02	*05	*02	*03					SSO	
278	Lee , Jar-How	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04		
6649	Lim , Young Ae	*07	*11	3*PRESENT	4*PRESENT									SSP	
2400	Liu , Chang	*07	*11	3*02	4*01			*02	*03			*02	*04	SSP SSO SBT	
731	Loewenthal , Ron	*07	*11			*02	*05	*02	*03					SSP SSO SBT	
206	McAlack , Robert	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02	*04		
735	Moussa , Omar	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSO	
3966	Permpikul , Vejba													SSP	
8001	Rao , Prakash	*07	*11	3*02	4*01	*02	*05	*02	*03						
3519	Renac , Virginie	*07	*11					*02	*03			*02(DP201)	*04(DP401)	SSP NGS	
793	Rubocki , Ronald	*07	*11	3*02	4*PRESENT	*02	*05	*02	*03			*02(DP201)	*04(DP401)	SSP	
4251	Schiller , Jennifer	*07	*11	3*02	4*01	*02	*05	*02	*03	*01	*01	*02(DP201)	*04(DP401)	SSO NGS	
8068	Shanmugam , He	*07	*11	3*02	4*01			*02	*03					SSO	
8042	Supino , Lia													SSP SSO	
8029	Tarigopula , Anil	*07	*11			*02	*05	*02	*03					SSO	
5451	Tilanus , Marcel G	*07	*11	3*02	4*01	*02	*05	*02	*03					SSP SSO SBT	
5642	Varnavidou-Nicola	*07	*11	3*PRESENT	4*PRESENT			*02	*03					SSP	
2847	Wakita , Atsushi	*07	*11											SSO	

Table 6b: Individual laboratory results for B-cell #544-Class II

Low resolution															
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5488	Adams , Sharda	*07:01:01	*11:19:01			*02:01	*05:05	*02:02:01	*03:01:01			*02:01	*04:01:01	SSP SSO SBT	DPB1*452:01 DPB1*457:01 DPB1*467:01 DPB1*469:01 DPB1*502:01 DPB1*510:01 DPB1*511:01 DPB1*513:01 DPB1*528:01 DPB1*418:01 DPB1*426:01 DPB1*428:01 DPB1*434:01 DPB1*453:01 DPB1*454:01 DPB1*455:01N DPB1*459:01 DPB1*464:01 DPB1*468:01 DPB1*475:01 DPB1*476:01+
5462	Arnold , Paula	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*02:01	*04:01	SSO	
5133	Askar , Medha	*07:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01:01	*05:05:01:02	*02:02:01	*03:01:01	*01:03		*02:01:02	*04:01:01	SSP NGS	DPA1*01:13
4492	Caillat-Zucman	*07:01:01	*11:19:01	3*02:02	4*01:03	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03	*01:03	*02:01:02	*04:01:01	SSP SSO NGS	DPA1*01:13
															DRB1*07:29 DRB1*07:30 DRB1*07:31 DRB1*07:32 DRB1*07:33 DRB1*07:35 DRB3*02:28 DRB3*02:29N DRB4*01:09 DRB4*01:10 DQB1*02:11 DQB1*02:12 DQB1*02:26 DQB1*03:37 DQB1*03:92 DQB1*03:93
774	Cecka , J. Michael	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO	
8070	Chang , Uckjin	*07:01	*11:19											SBT	
9916	Charlton , Ronald	*07:01:01	*11:19:01	3*02:02	4*01:03			*02:02:01	*03:01:01			*02:01:02	*04:01:01	SBT	
3224	Chen , Dong-Feng	*07:01:01G	*11:19	3*02:02:01G	4*01:01:01G	NT	NT	*02:02	*03:01:01G	NT	NT	NT	NT	SBT OTHER	
8021	Clark , Brenda	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	NGS	
3632	Colombe , Bettina	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO	
5130	Costeas , Paul	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP SSO NGS	
779	Daniel , Claude					*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSP SSO	
8086	Du , Keming	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSO SBT	
5214	Eckels/CPMC											*02:01G	*04:01G	RT-PCR	

Table 6b: Individual laboratory results for B-cell #544-Class II

Low resolution																
Center	Investigator	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles	
3135	Enczmann , J	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01			*02:01	*04:01			
747	Ferrari-Lacraz	*07:01:01:01	*11:19:01	3*02:02:01:02	4*01:03:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:02	SSP SSO NGS	DQB1*03:01:01:03	
762	Fischer , Gottfr	*07:01:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01:01	*05:05:01:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS		
4079	Fort , Marylise	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSP		
792	Gandhi , Manis	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSO SBT		
8043	Gideoni , Osn	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01					SSP SSO		
810	Hamdi , Nuha															
2344	Hurley & Hartz	*07:01:01:01	*11:19:01			*02:01:01	*05:05:01	*02:02:01	*03:01:01:03	*01:03:01:01	*01:03:01:02	*02:01:02	*04:01:01:01	NGS	DPB1*04:01:01:02	
771	Israel , Shosha	*07:01	*11:19					*02:02	*03:01					SSP SSO		
															DQA1*05:09 DQA1*05:11 DPB1*464:01 DRB1*07:34 DPB1*459:01 DPA1*01:13	
794	Jaatinen , Tain	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03		*02:01	*04:01	SSP SSO SBT RT-PCR		
4337	Kim , Tai-Gyu	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSP SBT		
278	Lee , Jar-How	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01			
2400	Liu , Chang	*07:01	*11:19			*02:01	*05:05	*02:02	*03:01			*02:01:02G	*04:01:01G	SSP SSO SBT		
731	Loewenthal , F	*07:01:01G	*11:19:01					*02:02:01	*03:01:01G					SSP SSO SBT		
3966	Permpikul , Ve	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01					SSP		
8001	Rao , Prakash	*07:01	*11:29	3*02:02	4*01:03			*02:02	*03:01			*02:01	*04:01			
3753	Reed , Elaine F	*07:01:01	*11:19:01	3*02:02:01	4*01:03:01	*02:01:01	*05:05:01	*02:02:01	*03:01:01	*01:03:01	*01:03:01	*02:01:02	*04:01:01	NGS		
3519	Renac , Virgini	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP NGS		
793	Rubocki , Ron					*02:01	*05:05					*02:01	*04:01:01G	SSP		
4251	Schiller , Jenni	*07:01	*11:19	3*02:02	4*01:01:01G	*02:01	*05:05	*02:02	*03:01	*01:03	*01:03	*02:01	*04:01	SSO NGS		
8042	Supino , Lia	*07:01	*11:19	3*02:02	4*01:03			*02:02	*03:01					SSP SSO		
230	Thoni , Debor	*07:01	*11:19					*02:02	*03:01			*02:01	*04:01	SSO SBT		
5451	Tilanus , Marce	*07:01:01	*11:19:01											SSP SSO SBT		
5642	Varnavidou-Nic	*07:01	*11:19					*02:02	*03:01					SSP		
3511	Zeevi , Adriana	*07:01	*11:19	3*02:02	4*01:03	*02:01	*05:05	*02:02	*03:01			*02:01	*04:01	SSP SSO		

Table 7: Individual laboratory results for B-cell #544-Class II

Serology									
CTR	DIRNAME	DRB1		DRB3/4/5		DQB1		Others	
910	Hahn,Amy B.	DR7	DR11	DR52	DR53		DQ2	DQ7	DR13

Table 8: Individual laboratory results for B-cell #544-Class I

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
															A*02:01:36 A*02:01:09 A*24:02:02 A*24:353 A*24:02:06 B*13:18 B*13:14 B*13:16 C*06:11 C*06:136 C*07:02:04 C*07:02:55 C*07:76:01 C*07:31:01 B*07:26 B*07:161N B*07:86 B*07:261 C*06:83 C*06:02:23 C*06:02:27
5488	Adams , Sharon							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01	*07:02:01	SSP SSO SBT	
5462	Arnold , Paula	*02	*24	*07	*13	*06	*07	NT	NT	NT	NT	NT	NT	SSO	
5133	Askar , Medhat							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01	SSP NGS	
4492	Caillat-Zucman ,							*02:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01	SSP SSO NGS	
774	Cecka , J. Michael	*02	*24	*07	*13	*06	*07	SSP SSO						SSP SSO	
8070	Chang , Uckjin													SBT	
9916	Charlton , Ronald							*02:01:01	*24:02	*07:02	*13:02:01	*06:02:01	*07:02:01	SBT	A*02:665 A*24:353
3224	Chen , Dong-Fen							*02:01:01G	*24:02:01G	*07:02:01G	*13:02	*06:02:01G	*07:02:01G	SBT OTHER	
8021	Clark , Brendan							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	NGS	
3632	Colombe , Beth V													SSP SSO	
5130	Costeas , Paul A.	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO NGS	A*02:01L
779	Daniel , Claude	*02	*24	*07	*13	*06	*07							SSP SSO	
8086	Du , Keming							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	
5219	Daniel , Dolly	*02	*24	*07	*13	*06	*07							SSO	
87	Di Paola , Nicholas	*02	*24	*07	*13	*06	*07							RT-PCR	
5214	Eckels/CPMC ,	*02	*24	*07	*13	*06	*07							RT-PCR	
3135	Enczmann , J							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02		A*02:01L
747	Ferrari-Lacraz , S	*02	*24	*07	*13	*06	*07	*02:01:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01:03	SSP SSO NGS	
762	Fischer , Gottfried													NGS	
4079	Fort , Marylise													SSP	
792	Gandhi , Manish	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	A*02:01:01:02L
8043	Gideoni , Osnat													SSP SSO	
810	Hamdi , Nuha	*02	*24	*07	*13	*06	*07								
8087	Hernandez Rosal	*02	*24	*07	*13	*06	*07							SSO	
2344	Hurley & Hartzma							*02:01:01:01	*24:02:01:01	*07:02:01	*13:02:01	*06:02:01:01	*07:02:01:03	NGS	
771	Israel , Shoshana													SSP SSO	
794	Jaatinen , Taina	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO SBT RT-PCR	C*06:83 B*07:61 B*07:161N C*07:50 C*07:349
4337	Kim , Tai-Gyu							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SBT	
725	Lardy , N.M.													SSO	
278	Lee , Jar-How	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02		
6649	Lim , Young Ae													SSP	
2400	Liu , Chang	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO SBT	

Table 8: Individual laboratory results for B-cell #544-Class I

		Low resolution						High resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		METHOD	Other Alleles
731	Loewenthal , Ro													SSP SSO SBT	
206	McAlack , Robert	*02	*24	*07	*13	*06	*07								
735	Moussa , Omar	*02	*24	*07	*13	*06	*07							SSO	
3966	Permpikul , Vejba	*02	*24	*07	*13	*06	*07							SSP	
8001	Rao , Prakash														
3519	Renac , Virginie	*02	*24	*07	*13	*06	*07							SSP NGS	
3753	Reed , Elaine F.							*02:01:01	*24:02:01	*07:02:01	*13:02:01	*06:02:01	*07:02:01	NGS	
3519	Renac , Virginie							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP NGS	
793	Rubocki , Ronald	*02	*24	*07	*13	*06	*07							SSP	
4251	Schiller , Jennifer	*02	*24	*07	*13	*06	*07	*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO NGS	
8068	Shanmugam , He	*02	*24	*07	*13	*06	*07							SSO	
8042	Supino , Lia							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO	
8029	Tarigopula , Anil	*02	*24	*07	*13	*06	*07							SSO	
230	Thoni , Deborah							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSO SBT	
5451	Tilanus , Marcel C													SSP SSO SBT	
5642	Varnavidou-Nicol													SSP	
2847	Wakita , Atsushi	*02	*24	*07	*13	*06	*07							SSO	
3511	Zeevi , Adriana							*02:01	*24:02	*07:02	*13:02	*06:02	*07:02	SSP SSO	

CELL EXCHANGE #401

The results for Cell Exchange #401 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Tables 11-14 for each sample and individual serology results for each sample are listed

in Table 15. The haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Cell 1601. The consensus type for this sample from a Hispanic donor is A*02:01(A2)-A*26:01(A26)-B*27:05(B27)-B*51:08(B51)-C*02:02(Cw2)-C*16:02. Likely class I association present are A*02:01-B*51:08-C*16:02, with HF=0.00025, in Hispanics. This association was also observed in Cell 1429 (same as cell 1299, 1269, 1242), also from a Hispanic donor. The other likely association present is A*26:01-B*27:05-C*02:02, with HF=0.00021, in Hispanics. B*27:05 (100%) and B*51:08 (100%) were reported as the B-locus types, with 5 labs reporting B*27:05:02 and B*51:08:01. A*02:01, A*26:01, C*02:02, and C*16:02 were also reported in complete consensus, with 5 labs assigning A*02:01:01, A*26:01:01, C*02:02:02, and C*16:02:01. A2 (100%), A26 (93%), B27 (100%), and B51 (93%) were all assigned by serology.

Cell 1602. The consensus type for this sample from a Hispanic donor is A*02:01(A2)-A*24:02(A24)-B*35:20(B35)-B*44:03(B44)-C*04:01(Cw4)-C*16:02. Likely class I associations present in this cell are, A*02:01-B*44:03-C*16:02 and A*24:02-B*35:20-C*04:01, observed in Hispanics, with respective HF=0.00043 and 0.00051. The A*24:02-B*35:20-C*04:01 association in this cell was also observed in cell 1375, also from a Hispanic donor. This cell was previously typed as cell 1536 (2014). In this present retyping, A*02:01, A*24:02, B*35:20, B*44:03, C*04:01, and C*16:02 were assigned in complete consensus by labs reporting at high resolution. A*02:01:01, A*24:02:01, B*35:20:01, B*44:03:01, C*04:01:01, and C*16:02:01 were assigned by a number of labs (n=5) reporting higher resolution typing. Good agreement was also achieved by serology labs, as A2 (100%), A24 (100%), B35 (80%), and B44 (100%) were reported.

Cell 1603. The consensus type for this sample from a Hispanic donor is A*01:01(A1)-A*68:03(A68)-B*15:17(B63)-B*35:43(B35)-C*01:02(Cw1)-C*07:01(Cw7). This donor is sibling of cell 1510. The 2 siblings are HLA identical. Likely class I associations present in this cell are A*01:01-B*15:17-C*07:01 and A*68:03-B*35:43-C*01:02, with respective HF=0.00126 and 0.00089, in Hispanics. This cell was typed 2 other times in the exchange, as cell 1459 (2012) and cell 1419 (2011). In the present retyping, B*35:43 (100%) and B*15:17 (100%) were once again well assigned, with 4 labs assigning B*15:17:01 and B*35:43:01. A*01:01 (A*01:01:01), A*68:03 (A*68:03:01), B*15:17 (B*15:17:01), C*01:02 (C*01:02:01), and C*07:01 (C*07:01:02) were assigned by 100% of labs reporting at high resolution. A1 (100%), A68 (71%), B35 (93%), and B63 (86%), were reported by serology.

Cell 1604. The consensus type for this sample from a Filipino donor is A*24:02(A24)-A*24:07-B*15:02(B75)-B*57:01(B57)-C*04:01(Cw4)-C*06:02(Cw6). One likely association present in this cell is A*24:02-B*57:01-C*06:02, observed in Asians, with HF=0.00057. The other likely association present is A*24:07-B*15:02-C*04:01, observed in previous exchange cells, cell 1490 and cell 1078, also from Filipino donors. Two subtypes of A*24 were present in this cell, A*24:02 (100%) and A*24:07 (100%). A*24:02:01 and A*24:07:01 were each assigned by 4 labs. B*15:02, B*57:01, C*04:01, and C*06:02 were also reported in complete consensus, with 3 labs assigning B*15:02:01 and 4 labs assigning B*57:01:01, C*04:01:01, and C*06:02:01. A24 (100%) and B57 (93%) were well assigned by serology. Less consensus was achieved for the second B-locus type, as only 79% assigned B15, with 64% reporting B75 as the split. One lab misassigned B70 and another misassigned B62.

Table 9. Summary of the 401st Cell Exchange (Cell #1601-1604)**DNA typing**

Cell 1601	
19 low/13 high labs - A	%(n)
A*02:01:01:01	15(2)
A*02:01:01	23(3)
A*02:01:01G	8 (1)
A*02:01	54(7)
A*02	100(19)
19 low/13 high labs - A	%(n)
A*26:01:01:01	23(3)
A*26:01:01	15(2)
A*26:01:01G	8 (1)
A*26:01	54(7)
A*26	100(19)
19 low/15 high labs - B	%(n)
B*27:05:02	33(5)
B*27:05:02G	13(2)
B*27:05	53(8)
B*27	
19 low/16 high labs - B	%(n)
B*51:08:01	31(5)
B*51:08	69(11)
B*51	100(19)
18 low/13 high Labs - C	%(n)
C*02:02:02:01	23(3)
C*02:02:02	15(2)
C*02:02	62(8)
C*02	
18 low/13 high Labs - C	%(n)
C*16:02:01	38(5)
C*16:02:01G	8 (1)
C*16:02	54(7)
C*16	100(18)

Cell 1602	
19 low/13 high labs - A	%(n)
A*02:01:01:01	15(2)
A*02:01:01	23(3)
A*02:01:01G	8 (1)
A*02:01	54(7)
A*02	100(19)
19 low/13 high labs - A	%(n)
A*24:02:01:01	23(3)
A*24:02:01	15(2)
A*24:02	62(8)
A*24	100(19)
19 low/16 high labs - B	%(n)
B*35:20:01	31(5)
B*35:20	69(11)
B*35	100(19)
19 low/16 high labs - B	%(n)
B*44:03:01	31(5)
B*44:03	69(11)
B*44	100(19)
18 low/13 high Labs - C	%(n)
C*04:01:01:01	15(2)
C*04:01:01	23(3)
C*04:01P	8 (1)
C*04:01	54(7)
C*04	100(18)
18 low/13 high Labs - C	%(n)
C*16:02:01	38(5)
C*16:02:01G	8 (1)
C*16:02	54(7)
C*16	100(18)

Cell 1603	
19 low/13 high labs - A	%(n)
A*01:01:01:01	15(2)
A*01:01:01	15(2)
A*01:01	69(9)
A*01	100(19)
19 low/15 high labs - A	%(n)
A*68:03:01	27(4)
A*68:03	73(11)
A*68	100(19)
19 low/16 high labs - B	%(n)
B*15:17:01:01	12(2)
B*15:17:01	12(2)
B*15:17	75(12)
B*15	100(19)
19 low/15 high labs - B	%(n)
B*35:43:01	27(4)
B*35:43	73(11)
B*35	100(19)
18 low/13 high Labs - C	%(n)
C*01:02:01	31(4)
C*01:02:01G	8 (1)
C*01:02	61(8)
C*01	100(18)
18 low/13 high Labs - C	%(n)
C*07:01:02	31(4)
C*07:01:02G	8 (1)
C*07:01	61(8)
C*07	100(18)

Cell 1604	
19 low/13 high labs - A	%(n)
A*24:02:01:01	15(2)
A*24:02:01	15(2)
A*24:02	69(9)
A*24	100(19)
14 high labs - A	%(n)
A*24:07:01	29(4)
A*24:07	71(10)
20 low/16 high labs - B	%(n)
B*15:02:01	19(3)
B*15:02:01G	6 (1)
B*15:02	75(12)
B*15	100(19)
19 low/14 high labs - B	%(n)
B*57:01:01	29(4)
B*57:01	71(10)
B*57	100(19)
18 low/13 high labs - C	%(n)
C*04:01:01:01	8 (1)
C*04:01:01	23(3)
C*04:01P	8 (1)
C*04:01	61(8)
C*04	100(18)
18 low/13 high labs - C	%(n)
C*06:02:01:01	15 (2)
C*06:02:01	15 (2)
C*06:02:01G	8 (1)
C*06:02	61(8)
C*06	100(18)

Table 10. Summary of the 401st Cell Exchange (Cell #1601 - 1604)

Serological typing

(Hispanic) Cell 1601	
(15 Samples Typed)	
A2	100.0%
	[100.0%]
A26	93.3%
A10	6.7%
	[100.0%]
B27	100.0%
	[100.0%]
B51	93.3%
B5	6.7%
	[100.0%]
Cw2	46.7%
Bw4	60.0%
Others Found	
Bw6	6.7%
Cw5	6.7%
B44	6.7%
Cw16	6.7%
B53	6.7%
B7	6.7%

(Hispanic) Cell 1602	
(15 Samples Typed)	
A2	100.0%
	[100.0%]
A24	100.0%
	[100.0%]
B35	80.0%
B44	100.0%
	[100.0%]
Cw4	46.7%
	[46.7%]
Bw4	60.0%
Bw6	53.3%
Others Found	
B48	6.7%
B58	6.7%
Cw5	6.7%
Cw16	6.7%

(Hispanic) Cell 1603	
(14 Samples Typed)	
A1	100.0%
A68	71.4%
A28	28.6%
	[100.0%]
B35	92.9%
B63	85.7%
B15	14.3%
	[100.0%]
Cw1	35.7%
Cw7	35.7%
Bw4	57.1%
Bw6	57.1%
Others Found	
B58	7.1%
B53	7.1%
B70	7.1%

(Filipino) Cell 1604	
(14 Samples Typed)	
A24	100.0%
	[100.0%]
B75	64.3%
B15	14.3%
	[78.6%]
B57	92.9%
B17	7.1%
	[100.0%]
Cw4	35.7%
	[35.7%]
Cw6	28.6%
	[28.6%]
Bw4	57.1%
Bw6	57.1%
Others Found	
B70	14.3%
A32	14.3%
B62	7.1%

Table 11. Individual laboratory results for Cell #1601

		Low Resolution						High Resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
5462	Arnold , Paula	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02	SSO NGS	
5133	Askar , Medhat							*02:01:01	*26:01:01	*27:05:02	*51:08:01	*02:02:02	*16:02:01		
4492	Caillat-Zucman , S	*02	*26	*27	*51	*02	*16							SSP	
774	Cecka , J. Michael	*02	*26	*27	*51	*02	*16			*27:05	*51:08			SSP SSO	B*27:13 B*27:123
8070	Chang , Uckjin							*02:01	*26:01	*27:05	*51:08	*02:02	*16:02	SBT	
3632	Colombe , Beth W	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02	SSP SSO	
779	Daniel , Claude	*02	*26	*27	*51	*02	*16				*51:08			SSP SSO	
3766	Dunckley , Heather	*02	*26	*27	*51	*02	*16							SSO	
5214	Eckels/CPMC ,	*02	*26	*27	*51	*02	*16							RT-PCR	
747	Ferrari-Lacruz , S	*02	*26	*27	*51	*02	*16	*02:01:01:01	*26:01:01:01	*27:05:02	*51:08:01	*02:02:02:01	*16:02:01	SSP SSO NGS	
762	Fischer , Gottfried							*02:01:01:01	*26:01:01:01	*27:05:02	*51:08:01	02:02:02:01	*16:02:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
															C*16:63 A*02:629 A*26:117 B*27:13 A*02:665
3545	Goldstein , Steven	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02	SSO SBT	
810	Hamdi , Nuha	*02	*26	*27	*51	*02	*16								
3808	Hogan , Patrick	*02	*26	*27	*51	*02	*16			*27:05:02G	*51:08			SSP	
771	Israel , Shoshana	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02	SSO SBT	
725	Lardy , N.M.	*02	*26	*27	*51	*02	*16							SSO	
745	Latham , Katy							*02:01:01	*26:01:01:01	*27:05:02	*51:08:01	*02:02:02:01	*16:02:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02		
6649	Lim , Young Ae	*02	*26	*27	*51									SSP	
8001	Rao , Prakash	*02	*26	*27	*51	*02	*16							SSO	
															A*02:629 A*02:642 A*02:665 A*26:117 C*16:63
3625	Rees , Tracey	*02	*26	*27	*51	*02	*16	*02:01	*26:01	*27:05	*51:08	*02:02	*16:02		
4251	Schiller , Jennifer	*02	*26	*27	*51	*02	*16	*02:01:01G	*26:01:01G	*27:05:02G	*51:08	*02:02	*16:02:01G	SSO SBT	
16	Zhang , Aiwen							*02:01:01	*26:01:01	*27:05:02	*51:08:01	*02:02:02	*16:02:01	NGS	
3186	Watson , Narelle	*02	*26	*27	*51	*02	*16								

Table 12. Individual laboratory results for Cell #1602

		Low Resolution						High Resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
5462	Arnold , Paula	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSO NGS	
5133	Askar , Medhat							*02:01:01	*24:02:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01		
4492	Caillat-Zucman , S	*02	*24	*35	*44	*04	*16							SSP	
774	Cecka , J. Michael	*02	*24	*35	*44	*04	*16			*35:20	*44:03			SSP SSO	B*44:198N
8070	Chang , Uckjin							*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SBT	
3632	Colombe , Beth W	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSP SSO	
779	Daniel , Claude	*02	*24	*35	*44	*04	*16			*35:20	*44:03			SSP SSO	
3766	Dunckley , Heather	*02	*24	*35	*44	*04	*16							SSO	
5214	Eckels/CPMC ,	*02	*24	*35	*44	*04	*16							RT-PCR	
747	Ferrari-Lacraz , S	*02	*24	*35	*44	*04	*16	*02:01:01:01	*24:02:01:01	*35:20:01	*44:03:01	*04:01:01:01	*16:02:01	SSP SSO NGS	
762	Fischer , Gottfried							*02:01:01:01	*24:02:01:01	*35:20:01	*44:03:01	*04:01:01:01	*16:02:01	NGS	
4079	Fort , Marylise	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO	
															A*02:629 C*04:30 C*16:63 C*04:82 C*04:226 A*02:665 A*24:352 A*24:353
3545	Goldstein , Steven	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSO SBT	
810	Hamdi , Nuha	*02	*24	*35	*44	*04	*16								
3808	Hogan , Patrick	*02	*24	*35	*44	*04	*16			*35:20	*44:03			SSP	
771	Israel , Shoshana	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02	SSO SBT	
725	Lardy , N.M.	*02	*24	*35	*44	*04	*16							SSO	
745	Latham , Katy							*02:01:01	*24:02:01:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01	SSP SBT NGS	
278	Lee , Jar-How	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02		
6649	Lim , Young Ae	*02	*24	*35	*44									SSP	
8001	Rao , Prakash	*02	*24	*35	*44	*04	*16							SSO	
															A*02:642 A*02:665 A*24:352 A*24:353 C*16:63 A*02:629 C*04:09N C*04:226
3625	Rees , Tracey	*02	*24	*35	*44	*04	*16	*02:01	*24:02	*35:20	*44:03	*04:01	*16:02		
4251	Schiller , Jennifer	*02	*24	*35	*44	*04	*16	*02:01:01G	*24:02	*35:20	*44:03	*04:01P	*16:02:01G	SSO SBT	
3186	Watson , Narelle	*02	*24	*35	*44	*04	*16								
16	Zhang , Aiwen							*02:01:01	*24:02:01	*35:20:01	*44:03:01	*04:01:01	*16:02:01	NGS	

Table 13. Individual laboratory results for Cell #1603															
		Low Resolution						High Resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
5462	Arnold , Paula	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSO NGS	
5133	Askar , Medhat							*01:01:01	*68:03:01	*15:17:01	*35:43:01	*01:02:01	*07:01:02		
4492	Caillat-Zucman ,	*01	*68	*15	*35	*01	*07							SSP	
															A*68:85 A*68:57 A*68:90 B*35:67 B*35:79 B*35:117
774	Cecka , J. Michael	*01	*68	*15	*35	*01	*07		*68:03	*15:17	*35:43			SSP SSO	
8070	Chang , Uckjin							*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SBT	
3632	Colombe , Beth V	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSP SSO	
779	Daniel , Claude	*01	*68	*15	*35	*01	*07		*68:03	*15:17				SSP SSO	
3766	Dunckley , Heath	*01	*68	*15	*35	*01	*07							SSO	
5214	Eckels/CPMC ,	*01	*68	*15	*35	*01	*07							RT-PCR	
747	Ferrari-Lacraz , S	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762	Fischer , Gottfried							*01:01:01:01	*68:03:01	*15:17:01:01	*35:43:01	*01:02:01	*07:01:02	NGS	
4079	Fort , Marylise	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSP SSO	A*01:195
															C*01:85 C*07:06 C*07:18 C*07:343 C*07:419 C*07:458 A*01:234 C*01:127
3545	Goldstein , Steve	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSO SBT	
810	Hamdi , Nuha	*01	*68	*15	*35	*01	*07								
3808	Hogan , Patrick	*01	*68	*15	*35	*01	*07			*15:17	*35:43			SSP	
771	Israel , Shoshana	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01	SSO SBT	
725	Lardy , N.M.	*01	*68	*15	*35	*01	*07							SSO	
745	Latham , Katy							*01:01:01:01	*68:03:01	*15:17:01:01	*35:43:01	*01:02:01	*07:01:02	SSP SBT NGS	
278	Lee , Jar-How	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01		
6649	Lim , Young Ae	*01	*68	*15	*35									SSP	
8001	Rao , Prakash	*01	*68	*15	*35	*01	*07							SSO	
3625	Rees , Tracey	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02	*07:01		A*01:234 C*01:127
4251	Schiller , Jennifer	*01	*68	*15	*35	*01	*07	*01:01	*68:03	*15:17	*35:43	*01:02:01G	*07:01:01G	SSO SBT	
3186	Watson , Narelle	*01	*68	*15	*35	*01	*07								
16	Zhang , Aiwen							*01:01:01	*68:03:01	*15:17:01	*35:43:01	*01:02:01	*07:01:02	NGS	

Table 14. Individual laboratory results for Cell #1604															
		Low Resolution						High Resolution							
Center	Investigator	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C		Method	Other Alleles
5462	Arnold , Paula	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSO NGS	
5133	Askar , Medhat							*24:02:01	*24:07:01	*15:02:01	*57:01:01	*04:01:01	*06:02:01		
4492	Caillat-Zucman , S	*24		*15	*57	*04	*06							SSP	
774	Cecka , J. Michael	*24	*24	*15	*57	*04	*06		*24:07	*15:02	*57:01			SSP SSO	A*24:112 A*24:131 A*24:288 B*15:214 B*15:223 B*15:302N
8070	Chang , Uckjin							*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SBT	
3632	Colombe , Beth W	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSP SSO	
779	Daniel , Claude	*24	*24	*15	*57	*04	*06			*15:02				SSP SSO	
3766	Dunckley , Heathe	*24		*15	*57	*04	*06							SSO	
5214	Eckels/CPMC ,	*24		*15	*57	*04	*06							RT-PCR	
747	Ferrari-Lacraz , Sy	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	SSP SSO NGS	
762	Fischer , Gottfried							*24:02:01:01	*24:07:01	*15:02	*57:01:01	*04:01:01:01	*06:02:01:01	NGS	
4079	Fort , Marylise	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSP SSO	
3545	Goldstein , Steven	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSO SBT	C*04:30 C*04:82 C*04:226 C*06:83 A*24:352 A*24:353
810	Hamdi , Nuha	*24	*24	*15	*57	*04	*06								
3808	Hogan , Patrick	*24		*15	*57	*04	*06			*15:02:01G				SSP	
771	Israel , Shoshana	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02	SSO SBT	
725	Lardy , N.M.	*24		*15	*57	*04	*06							SSO	
745	Latham , Katy							*24:02:01:01	*24:07:01	*15:02:01	*57:01:01	*04:01:01	*06:02:01:01	SSP SBT NGS	
278	Lee , Jar-How	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02		
6649	Lim , Young Ae	*24		*15	*57									SSP	
8001	Rao , Prakash	*24		*15	*57	*04	*06							SSO	
3625	Rees , Tracey	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01	*06:02		A*24:352 A*24:353 C*04:09N C*04:226 C*06:83
4251	Schiller , Jennifer	*24	*24	*15	*57	*04	*06	*24:02	*24:07	*15:02	*57:01	*04:01P	*06:02:01G	SSO SBT	
3186	Watson , Narelle	*24	*24	*15	*57	*04	*06								
16	Zhang , Aiwen							*24:02:01	*24:07:01	*15:02:01	*57:01:01	*04:01:01	*06:02:01	NGS	

Table 15. Individual laboratory results for Cell #1601-1604 by serology

		Cell No 1601 (Hispanic)								Cell No 1602 (Hispanic)								Cell No 1603 (Hispanic)								Cell No 1604 (Filipino)											
Investigator	Days Old	Viab %	A2	A26	B27	B51	Cw2	Bw4	OTHERS	Viab %	A2	A24	B35	B44	Cw4	Bw4	Bw6	OTHERS	Viab %	A1	A68	B35	B63	Cw1	Cw7	Bw4	Bw6	OTHERS	Viab %	A24	B75	B57	Cw4	Cw6	Bw4	Bw6	OTHERS
Cecka, J. Mic	2	>95	+	+	+	+		+		>95	+	+		+		+	+		>95	+	+	+	+			+	+		>95	+	+	+			+	+	
Dunckley, Hea	7	90	+	+	+	+				95	+	+	+	+					90	+	+	+	+					90	+	+	+						
Enczmann, J		90	+	+	+	+				90	+	+	+	+					90	+	+	+	+					90	+	+	+						
Ferrari-Lacra		90	+	+	+	+	+	+	Cw16	90	+	+	+	+	+	+	+	Cw16	NT									NT									
Fort, Marylis	3	98	+	+	+	+				98	+	+	+	+					96	+	+	+	+					98	+	+	+						
Hahn, Amy B.		99	+	+	+	+		+		99	+	+	+	+		+	+		99	+	+	+	+			+	+	99	+		+			+	+	B70	
Hogan, Patric		40	+	+	+	+	+	+		50	+	+	+	+	+	+	+		80	+	+	+	+			+	+	80	+	+	+	+	+	+	+		
Latham, Katy	3	95	+	+	+	+		+		99	+	+	+	+		+	+		99	+	+	+	+			+	+	99	+	+	+			+	+		
Permpikul, Ve	6	80	+	+	+	+		+		80	+	+		+		+	+	B48	80	+	+	+	+			+	+	80	+	+	+			+	+		
Pule, Ziningi		90	+	+	+	+	+		B53	80	+	+	+	+	+			B58	85	+	+	+	+	+	+		B70,B58	85	+	B62	+	+	+			B70,A32	
Rees, Tracey		90	+	+	+	+	+			90	+	+	+	+	+				90	+	A28	+	+	+	+			90	+	+	+	+	+				
Renac, Virgin	3	100	+	+	+	+		+		100	+	+	+	+		+	+		100	+	A28	+	B15			+	+	100	+	B15	+			+	+		
Shai, Isaac	8	92%	+	A10	+	B5	+	+	B44,B7+	90%	+	+	+	+	+	+	+	Cw5	90%	+	A28	+	B15	+	+	+	+	B53	88	+	B15	B17	+	+	+	+	A32
Vidan-Jeras,	2	100	+	+	+	+	+	+		95	+	+	+	+	+	+	+		100	+	+	+	+	+	+	+	+	100	+	+	+			+	+		
Zhang, Aiwen	2	95	+	+	+	+	+			95	+	+		+	+				95	+	A28		+	+	+			95	+		+	+					

SERUM EXCHANGE #559

The results for **Serum Exchange 559** (sera 1229 - 1232), are summarized in Tables 16 -22 and individual laboratory results by method are listed in

Tables 23-32. Sera strongly positive to B8 and B7C specificities were examined in this study.

1229	method	#labs	B7	B81	B81	B27	B2708	B60	B61	B40	B13	B42	B55	B56	B54	B48	B47	B41	B82	B67	B73	B37	A66	A6602	Cw2	B53	B57	B35	B8	B58	B63	Cw17	B49	A32	B51	B75
class I	NIH-Std	4	75	50		50		25	25	25	25																									
	NIH-Ext	2	100	50		50		100	50			50	50	50		50																				
	AHG	3	100	100		100		67	67	33	67	67	67	67	33	33	100	33				33														
	C1q	3	100	100		100		100	100		100	100	100	100	33	100	100		67	100	100		33	67	33											
	Other	2	50	50				50	50		50	50	50	50	50	50	50	50	50	50						50	50	50	50							
	Flow	2	no specificities assigned																							50	50	50	50							
	Luminex	28	100	79	25	96	43	93	93		93	100	100	100	100	89	93	93	86	100	96	57	54	71	93	96	96	96	96	96	96	89	89	82	82	79
1229	method	#labs	B59	B77	B50	Cw1	A74	B46	B62	B71	B78	Cw15	A80	B52	A25	B39	Cw14	A23	B72	A24	Cw10	A29	B38	Cw9	B703	B8201	B7801	A31	B40	B76	B7C	Cw4	Cw7	A1	A10C	A2403
class I	Luminex	28	71	71	64	64	54	54	54	54	54	50	46	36	29	29	29	25	25	21	21	18	18	18	14	14	11	7	7	7	7	7	7	4	4	4

1229	method	#labs	DR7	DQ2	DQA1*05	DR4	DQA1*02	DR12	DR1	DR13	DR52	DR8	DR14	DQ4	DR16	DQ8	DQ9	DQ7
class II	NIH-Ext	1	no consensus															
	C1q	3	100	67	33													
	Other	2	50	50		50												
	Flow	2	no specificities assigned															
	Luminex	26	100	100	8	96	65	35	27	27	27	27	23	23	19	15	15	15

Serum 1229 was reported as positive to a number of B7C specificities, including B7, B81, B27, B40, B13, B42, B22, B47, B48, and B41. Additional reactivity to A66, B67, B73, and B82 was reported by various methods. In addition, reactivity to a number of 5C specificities was reported by Luminex, while some labs also reported allele specific A*66:02 and B*51:02 reactivity. For class II, strong anti-DR7 and –DQ2 reactivity was reported by Luminex and C1q labs. In addition, reactivity to DR4 was reported by Luminex and PRA. Allele specific DRB3*03:01 and DRB1*13:03 reactivity was also reported by 2 labs.

1230	method	#labs	B7	B81	B8101	B27	B2708	B42	B54	B55	B56	B22	B60	B61	B67	B48	B73	B47	A3	B13	B82	Cw1	B57	B63	B64	Cw14	B58	Cw2	B39	A24	A2403	B46	Cw9	Cw15	A80	Cw10	A6602	A66	A1	A23			
class I	NIH-Std	4	75	50		25						25																															
	NIH-Ext	2	50	50		100																																					
	AHG	3	100	100		100		33	33	67	67	33	33	33		33		33	33	33																							
	C1q	3	100	100		100		100	67	67	67		67	67	100	67	100				67	33																					
	Other	2	50	50				50	50	50	50		50	50	50																												
	Flow	2	no specificities assigned																																								
	Luminex	28	100	82	25	96	43	100	100	100	100	4	96	96	100	93	96	89	96	89	82	93	96	96	96	93	89	89	82	75	25	75	71	64	61	61	57	57	50	50			
1230	method	#labs	A11	A36	A25	A29	A32	Cw17	A30	B3901	A33	A34	A74	B703	Cw5	A1101	A26	A31	A43	B8201	A1102	B72	Cw4	B14	B15	B40	B44	B7C	Cw12	A10C	A1C	A2C	A6601	B17	B18								
class I	Luminex	28	43	39	29	29	29	29	25	21	18	18	18	18	18	14	14	14	14	14	11	11	11	7	7	7	7	7	7	4	4	4	4	4	4	4							

1230	method	#labs	NEG	DQ4	DQ5	DQ6	DR16	DR15	DR51	DPw3	DPw6	DP9	DP14	DP17	DP20	DP10	DP11	DP19	DPw1	DPw5	DQA1*01	DPw2	DP18	DPw4	DR7	DR9	DR1	DR103	DR11
class II	NIH-Ext	1	no consensus																										
	C1q	2	100																										
	Other	2		50	50	50	50	50	50																				
	Flow	2	no specificities assigned																										
	Luminex	26		100	100	100	100	100	96	92	92	85	85	85	73	58	39	35	31	27	23	15	12	12	15	15	12	12	12

For **Serum 1230**, strong B7 and B81 reactivity was reported by all methods, except Flow. Additional reactivity to A3, B73, and a number of 7C specificities was reported by various methods. In addition, Luminex reported strong reactivity to B57, B63, B64, Cw14, B58, and B39, as well as reactivity to 1C and 10C specificities. For class II, reactivity to DQ4, DQ5, DQ6, DR15,

DR16, and DR51 was reported by Luminex and PRA. Reactivity to a number of DP antigens was also reported by Luminex labs. In addition, allele specific DPB1*04:02 reactivity was reported by 2 labs. Interestingly, labs reporting by C1q reported this sample as negative for class II.

1231	method	#labs	B8	B7	B703	B71	B54	B55	B56	B18	B35	B42	B45	B60	B61	B62	B41	B64	B65	B75	B50	B48	Bw6	B78	B7801	B81	B8101	B72	B59	B67	B76
class I	NIH-Std	3	67																												
	NIH-Ext	2	100																												
	AHG	3	100	33		33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33		33		33				
	C1q	3	100	33		33																							67		
	Other	2	50	50		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		50		50		50	
	Flow	2	no specificities assigned																												
	Luminex	27	96	100	15	96	100	100	100	96	96	96	96	96	96	96	93	93	93	93	93	93	41	85	26	81	26	96	93	96	96
1231	method	#labs	B39	B3901	B82	B8201	B73	B27	B2708	B46	Cw9	Cw7	Cw1	Cw10	Cw8	Cw14	Cw16	Cw12	B63	B14	B15	B40	B57	B7C	B8C	A33	A66	B12C	B13	B22	B44
class I	Other	2	50		50																										
	Luminex	27	85	22	81	15	81	67	67	67	70	70	67	56	48	22	19	15	11	7	7	7	7	7	7	4	4	4	4	4	4

1231	method	#labs	NEG	DQ5	DQ6	DR14	DR15	DR16	DR53
class II	NIH-Ext	1	no consensus						
	C1q	2	100						
	Other	2	100						
	Flow	2	no specificities assigned						
	Luminex	16	81	13	13	13	13	13	13

Serum 1231 was reported as strongly positive to B8. In addition, reactivity to B45, B64, B65, B39, and Bw6, as well as reactivity to 5C and 7C specificities, was reported by various methods. Allele specific B*27:08 reactivity was reported by 2 labs. This sample was reported as negative for class II.

1232	method	#labs	B8	B42	B64	B65	B14	B54	B55	B59	A29	A33	A68	A28	B18	B37	B38	B41	Cw1	B39	B3901	A34	A69	B67	Cw16	Cw8	Cw12	Cw4	Cw14	Cw18	Cw5	Cw6	Cw15	Cw7
class I	NIH-Std	3	67																															
	NIH-Ext	2	100				50																											
	AHG	3	100	67	67	67		33	33		33	33	33	33	67	67	33	67	33	33														
	C1q	3	100	33	33	33		33		67									33															
	Other	2	50	50											50																			
	Flow	2	no specificities assigned																															
	Luminex	27	100	96	93	96	7	100	100	93	96	96	96	4	93	93	93	93	93	78	22	96	96	96	93	93	93	93	93	89	89	89	85	78
1232	method	#labs	A3	A31	A32	A74	A30	A36	A23	A6602	A66	B61	B46	Cw2	A24	A2403	A2	A203	B27	B2708	B48	B7	B81	B51	B47	B73	B75	B8C	A10C	A19	A1C	A2C		
class I	NIH-Std	3																																
	NIH-Ext	2																																
	AHG	3																																
	C1q	3																																
	Other	2																																
	Flow	2																																
	Luminex	27	93	89	89	85	85	78	52	44	26	59	44	44	26	19	22	11	26	19	26	26	26	19	15	7	7	7	4	4	4	4		

1232	method	#labs	NEG	DR17	DR18	DR52	DR8	DR14	DR13	DR11	DR1404
class II	NIH-Ext	1	no consensus								
	C1q	2	100								
	Other	2	100								
	Flow	2	no specificities assigned								
	Luminex	23	26	74	70	50	35	35	26	12	9

For **Serum 1232**, strong B8 reactivity was reported for this sample. In addition, reactivity to A29, A33, A28 (A68 and A69), B18, B37, and Cw1, along with reactivity to 7C and 8C specificities, was reported by various methods. Additional reactivity to a number of C locus antigens and 1C and 10 specificities was reported by Luminex. This sample was reported as negative for class II by C1q, PRA, and a few labs (N=6) reporting by Luminex. The majority of Luminex labs (n=17) did report class II reactivity, however, as reactivity to DR7 and DR18 was reported, along with allele specific DRB3*01:01 and DRB3*03:01 reactivity.



NEXT MAILING DATE: February 7, 2018

HAPPY HOLIDAYS!

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed



Table 16. Summary of the 559th Serum Exchange (Serum #1229-1232) by NIH-Standard and NIH-Extended - class I

Method: NIH-Standard											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
4 typing Labs			4 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B7	75%	100%	B7	75%	75%	B8	67%	92%	B8	67%	100%
B27	50%	100%	B81	50%	100%						
B81	50%	100%	B22	25%	100%						
B13	25%	100%	B27	25%	100%						
B40	25%	100%									
B60	25%	67%									
B61	25%	50%									

Method: NIH-Extended											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B7	100%	100%	B27	100%	100%	B8	100%	100%	B8	100%	100%
B60	100%	75%	B7	50%	100%				B14	50%	100%
B27	50%	100%	B81	50%	100%						
B42	50%	100%									
B48	50%	100%									
B55	50%	100%									
B61	50%	100%									
B81	50%	100%									
B56	50%	67%									

Table 17. Summary of the 559th Serum Exchange (Serum #1229-1232) by Antiglobulin - class I

Method: Antiglobulin											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B27	100%	100%	B27	100%	100%	B8	100%	100%	B8	100%	100%
B47	100%	100%	B81	100%	100%	B18	33%	100%	B42	67%	100%
B7	100%	100%	B7	100%	83%	B35	33%	100%	B64	67%	100%
B81	100%	100%	B56	67%	100%	B42	33%	100%	B65	67%	100%
B13	67%	100%	B55	67%	40%	B45	33%	100%	B18	67%	88%
B42	67%	100%	B22	33%	100%	B48	33%	100%	B41	67%	67%
B56	67%	100%	B42	33%	100%	B50	33%	100%	B37	67%	50%
B60	67%	100%	B47	33%	100%	B54	33%	100%	A33	33%	100%
B61	67%	100%	B48	33%	100%	B56	33%	100%	B39	33%	100%
B55	67%	80%	B54	33%	100%	B64	33%	100%	B54	33%	100%
B37	33%	100%	B60	33%	100%	B65	33%	100%	B55	33%	100%
B40	33%	100%	B61	33%	100%	B71	33%	100%	A68	33%	89%
B41	33%	100%	A3	33%	86%	B75	33%	100%	A28	33%	75%
B48	33%	100%	B13	33%	25%	B7801	33%	100%	Cw1	33%	75%
B54	33%	100%				B8101	33%	100%	A29	33%	50%
						Bw6	33%	83%	B38	33%	33%
						B55	33%	80%			
						B62	33%	75%			
						B41	33%	67%			
						B60	33%	67%			
						B7	33%	50%			
						B61	33%	33%			

Table 18. Summary of the 559th Serum Exchange (Serum #1229-1232) by C1q - class I

Method: C1q											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
3 typing Labs			3 typing Labs			3 typing Labs			3 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B13	100%	100%	B27	100%	100%	B8	100%	100%	B8	100%	100%
B27	100%	100%	B42	100%	100%	B59	67%	100%	B59	67%	100%
B42	100%	100%	B67	100%	100%	B7	33%	100%	B42	33%	100%
B47	100%	100%	B7	100%	100%	B71	33%	100%	B54	33%	100%
B48	100%	100%	B73	100%	100%				B64	33%	100%
B55	100%	100%	B81	100%	100%				B65	33%	100%
B56	100%	100%	B48	67%	100%				Cw1	33%	100%
B60	100%	100%	B54	67%	100%						
B61	100%	100%	B55	67%	100%						
B67	100%	100%	B56	67%	100%						
B7	100%	100%	B60	67%	100%						
B73	100%	100%	B61	67%	100%						
B81	100%	100%	B82	67%	100%						
A6602	67%	100%	Cw1	33%	100%						
B82	67%	100%									
A66	33%	100%									
B54	33%	100%									
Cw2	33%	100%									

Table 19. Summary of the 559th Serum Exchange (Serum #1229-1232) by Other and Flow Cytometry - class I

Method: Other														
*** Serum 1229 ***				*** Serum 1230 ***				*** Serum 1231 ***				*** Serum 1232 ***		
2 typing Labs				2 typing Labs				2 typing Labs				2 typing Labs		
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion
B13	50%	100%		B42	50%	100%		B18	50%	100%		B18	50%	100%
B35	50%	100%		B54	50%	100%		B35	50%	100%		B42	50%	100%
B41	50%	100%		B55	50%	100%		B39	50%	100%		B8	50%	100%
B42	50%	100%		B56	50%	100%		B41	50%	100%				
B47	50%	100%		B60	50%	100%		B42	50%	100%				
B48	50%	100%		B61	50%	100%		B45	50%	100%				
B53	50%	100%		B67	50%	100%		B48	50%	100%				
B54	50%	100%		B7	50%	100%		B50	50%	100%				
B55	50%	100%		B81	50%	100%		B54	50%	100%				
B56	50%	100%						B55	50%	100%				
B57	50%	100%						B56	50%	100%				
B60	50%	100%						B60	50%	100%				
B61	50%	100%						B61	50%	100%				
B67	50%	100%						B62	50%	100%				
B7	50%	100%						B64	50%	100%				
B8	50%	100%						B65	50%	100%				
B81	50%	100%						B67	50%	100%				
B82	50%	100%				B7	50%	100%						
						B71	50%	100%						
						B72	50%	100%						
						B75	50%	100%						
						B78	50%	100%						
						B8	50%	100%						
						B81	50%	100%						
						B82	50%	100%						
						Bw6	50%	100%						
Method: Flow Cytometry														
*** Serum 1229 ***				*** Serum 1230 ***				*** Serum 1231 ***				*** Serum 1232 ***		
2 typing Labs				2 typing Labs				2 typing Labs				2 typing Labs		
Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion		Antigen	Consensus	Inclusion
no specificities assigned				no specificities assigned				no specificities assigned				no specificities assigned		

Table 20. Summary of the 559th Serum Exchange (Serum #1229-1232) by Luminex - class I

Method: Luminex											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
B42	100%	100%	B42	100%	100%	B54	100%	100%	B54	100%	100%
B54	100%	100%	B54	100%	100%	B55	100%	100%	B55	100%	100%
B55	100%	100%	B55	100%	100%	B56	100%	100%	B8	100%	100%
B56	100%	100%	B56	100%	100%	B7	100%	100%	A29	96%	100%
B67	100%	100%	B67	100%	100%	B18	96%	100%	A33	96%	100%
B7	100%	100%	B7	100%	100%	B35	96%	100%	A34	96%	100%
B27	96%	100%	A3	96%	100%	B42	96%	100%	A68	96%	100%
B53	96%	100%	B27	96%	100%	B45	96%	100%	A69	96%	100%
B57	96%	100%	B57	96%	100%	B60	96%	100%	B42	96%	100%
B58	96%	100%	B60	96%	100%	B61	96%	100%	B65	96%	100%
B73	96%	100%	B61	96%	100%	B62	96%	100%	B67	96%	100%
B63	96%	83%	B73	96%	100%	B67	96%	100%	B18	93%	100%
B35	96%	71%	B63	96%	83%	B71	96%	100%	B37	93%	100%
B8	96%	71%	B64	96%	67%	B72	96%	100%	B38	93%	100%
B13	93%	100%	B48	93%	100%	B76	96%	100%	B41	93%	100%
B47	93%	100%	Cw1	93%	100%	B8	96%	100%	B59	93%	100%
B60	93%	100%	Cw14	93%	71%	B41	93%	100%	B64	93%	100%
B61	93%	100%	B47	89%	100%	B59	93%	100%	Cw16	93%	100%
B41	93%	80%	B58	89%	100%	B64	93%	100%	Cw1	93%	91%
Cw2	93%	60%	B13	89%	89%	B65	93%	100%	Cw8	93%	87%
B48	89%	100%	Cw2	89%	70%	B75	93%	100%	Cw12	93%	80%
Cw17	89%	100%	B39	82%	100%	B50	93%	80%	Cw4	93%	80%
B49	89%	80%	B81	82%	100%	B48	93%	100%	Cw14	93%	71%
B82	86%	100%	B82	82%	100%	B39	85%	100%	A3	93%	67%
A32	82%	100%	A24	75%	100%	B78	85%	80%	A31	89%	100%
B51	82%	56%	B46	75%	100%	B82	81%	100%	A32	89%	100%
B81	79%	100%	Cw9	71%	100%	B81	81%	80%	Cw18	89%	83%
B75	79%	43%	Cw15	64%	100%	B73	81%	75%	Cw5	89%	80%
B59	71%	100%	A80	61%	100%	Cw7	70%	100%	Cw6	89%	53%
B77	71%	100%	Cw10	61%	100%	Cw9	70%	100%	A74	85%	100%
A6602	71%	50%	A6602	57%	75%	B2708	67%	100%	A30	85%	83%
B50	64%	100%	A66	57%	50%	B46	67%	100%	Cw15	85%	71%
Cw1	64%	100%	A1	50%	100%	Cw1	67%	100%	A36	78%	100%
B37	57%	100%	A23	50%	100%	B27	67%	56%	B39	78%	100%

Table 20. Summary of the 559th Serum Exchange (Serum #1229-1232) by Luminex - class I

Method: Luminex											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
28 typing Labs			28 typing Labs			27 typing Labs			27 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A74	54%	100%	A11	43%	100%	Cw10	56%	100%	Cw7	78%	78%
B46	54%	100%	B2708	43%	100%	Cw8	48%	100%	B61	59%	50%
B62	54%	100%	A36	39%	100%	Bw6	41%	90%	A23	52%	100%
B71	54%	100%	A25	29%	100%	B7801	26%	100%	A6602	44%	100%
B78	54%	100%	A29	29%	100%	B8101	26%	100%	B46	44%	100%
A66	54%	50%	A32	29%	100%	B3901	22%	100%	Cw2	44%	100%
Cw15	50%	100%	Cw17	29%	100%	Cw14	22%	100%	A24	26%	100%
A80	46%	100%	A2403	25%	100%	Cw16	19%	100%	A66	26%	100%
B2708	43%	100%	A30	25%	100%	B703	15%	100%	B27	26%	100%
B52	36%	100%	B8101	25%	100%	B8201	15%	100%	B48	26%	100%
A25	29%	100%	B3901	21%	100%	Cw12	15%	100%	B7	26%	100%
B39	29%	100%	A33	18%	100%	B63	11%	100%	B81	26%	100%
Cw14	29%	100%	A34	18%	100%	B14	7%	100%	A2	22%	100%
A23	25%	100%	A74	18%	100%	B15	7%	100%	B3901	22%	100%
B72	25%	100%	B703	18%	100%	B40	7%	100%	A2403	19%	100%
B8101	25%	100%	Cw5	18%	100%	B57	7%	100%	B2708	19%	100%
A24	21%	100%	A1101	14%	100%	B7C	7%	100%	B51	19%	100%
Cw10	21%	100%	A26	14%	100%	B8C	7%	100%	B47	15%	100%
A29	18%	100%	A31	14%	100%	A33	4%	100%	A203	11%	100%
B38	18%	100%	A43	14%	100%	A66	4%	100%	B14	7%	100%
Cw9	18%	100%	B8201	14%	100%	B12C	4%	100%	B73	7%	100%
B703	14%	100%	A1102	11%	100%	B13	4%	100%	B75	7%	100%
B8201	14%	100%	B72	11%	100%	B22	4%	100%	B8C	7%	100%
B7801	11%	100%	Cw4	11%	100%	B44	4%	100%	A10C	4%	100%
A31	7%	100%	B14	7%	100%	B47	4%	100%	A19	4%	100%
B40	7%	100%	B15	7%	100%	B58	4%	100%	A1C	4%	100%
B76	7%	100%	B40	7%	100%	B5C	4%	100%	A28	4%	100%
B7C	7%	100%	B44	7%	100%	B70	4%	100%	A2C	4%	100%
Cw4	7%	100%	B7C	7%	100%	Cw17	4%	100%	B13	4%	100%
Cw7	7%	100%	Cw12	7%	100%	Cw4	4%	100%	B35	4%	100%
A1	4%	100%	A10C	4%	100%	Cw6	4%	100%	B53	4%	100%

Table 21. Summary of the 559th Serum Exchange (Serum #1229-1232) by Luminex - class II

Method: Luminex											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
26 typing Labs			26 typing Labs			16 typing Labs			23 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	100%	100%	DQ6	100%	100%	NEG	81%	100%	DR17	74%	100%
DR7	100%	100%	DR15	100%	100%	DQ5	13%	100%	DR18	70%	100%
DR4	96%	100%	DQ5	100%	96%	DQ6	13%	100%	DR52	50%	67%
DQA1*02	65%	100%	DR16	100%	90%	DR14	13%	100%	DR8	35%	100%
DR12	35%	100%	DQ4	100%	89%	DR15	13%	100%	DR14	35%	67%
DR1	27%	100%	DR51	96%	92%	DR16	13%	100%	DR13	26%	100%
DR13	27%	100%	DPw3	92%	100%	DR53	13%	100%	NEG	26%	100%
DR52	27%	100%	DPw6	92%	100%				DR11	12%	100%
DR8	27%	100%	DP14	85%	100%				DR1404	9%	100%
DR14	23%	100%	DP17	85%	100%						
DQ4	23%	50%	DP9	85%	100%						
DR16	19%	100%	DP20	73%	100%						
DQ8	15%	33%	DP10	58%	100%						
DQ9	15%	33%	DP11	38%	100%						
DQ7	15%	20%	DP19	35%	100%						
DQA1*05	8%	100%	DPw1	31%	100%						
			DPw5	27%	50%						
			DQA1*01	23%	100%						
			DPw2	15%	100%						
			DR7	15%	100%						
			DR9	15%	100%						
			DP18	12%	100%						
			DPw4	12%	100%						
			DR1	12%	100%						
			DR103	12%	100%						
			DR11	12%	100%						

Table 22. Summary of the 559th Serum Exchange (Serum #1229-1232) by Various Methods - class II

Method: NIH-Extended											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no consensus			no consensus			no consensus			no consensus		

Method: C1q											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
3 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DR7	100%	100%	NEG	100%	100%	NEG	100%	100%	NEG	100%	100%
DQ2	67%	100%									
DQA1*05	33%	100%									

Method: Other											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ2	50%	100%	DQ4	50%	100%	NEG	100%	100%	NEG	100%	100%
DR4	50%	100%	DQ5	50%	100%						
DR7	50%	100%	DQ6	50%	100%						
			DR15	50%	100%						
			DR16	50%	100%						
			DR51	50%	100%						

Method: Flow											
*** Serum 1229 ***			*** Serum 1230 ***			*** Serum 1231 ***			*** Serum 1232 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
no specificities assigned			no specificities assigned			no specificities assigned			no specificities assigned		

Table 23. Individual laboratory results for Serum #1229-1232 by NIH-Standard and NIH-Extended - class I

	**** Serum 1229 ****					**** Serum 1230 ****				**** Serum 1231 ****			**** Serum 1232 ****			
Investigator	% POS	B7	B27	B81	Other	% POS	B7	B81	Other	% POS	B8	Other	% POS	B8	Other	Method
Fort, Marylise	31	+	+	+		43	+	+	B27	NT			NT			STD
McCluskey, James	62					31				17			21			STD
Vasilescu, Rodica	27	+		+	B40	27	+	+	B22	9	+		9	+		STD
Watson, Narelle	43	+	+		B60,B61,B13	21	+			17	+		19	+		STD

STD = NIH-Standard

	**** Serum 1229 ****					**** Serum 1230 ****				**** Serum 1231 ****			**** Serum 1232 ****			
Investigator	% POS	B7	B60		Other	% POS	B27		Other	% POS	B8	Other	% POS	B8	Other	Method
Lardy, N.M.	46	+	+		B27,B55,B56,B42	30	+		B7	13	+		19	+	B14	EXT
Reed, Elaine F. PhD	29	+	+		B61,B48,B81	12	+		B81	5	+		5	+		EXT

EXT- NIH-Extended

Table 24. Individual laboratory results for Serum #1229-1232 by Antiglobulin and C1q - class I

	**** Serum 1229 ****														**** Serum 1230 ****															
Investigator	% POS	B27	B47	B7	B81	B13	B42	B56	B60	B61	B55				Other	% POS	B27	B81	B7	B56	B55								Other	Method
Cecka, J. Michael P	48	+	+	+	+	+	+	+	+	+	+				B48,B54	44	+	+	+	+	+								B60,B61,B48,B13 >	Antiglobulin
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+				B37,B41		+	+	+	+	+									Antiglobulin
Vasilescu, Rodica	46	+	+	+	+										B40	26	+	+	+									B22	Antiglobulin	

	**** Serum 1231 ****														**** Serum 1232 ****															
Investigator	% POS	B8													Other	% POS	B8	B42	B64	B65	B18	B41	B37						Other	Method
Cecka, J. Michael P	76	+													B60,B61,B48,B62 >	74	+	+	+	+	+	+	+						B54,B55,A29,A33 >	Antiglobulin
Hahn, Amy B. PhD		+															+	+	+	+	+	+	+							Antiglobulin
Vasilescu, Rodica	9	+															9	+												Antiglobulin

	**** Serum 1229 ****															**** Serum 1230 ****															
Investigator	% POS	B13	B27	B42	B47	B48	B55	B56	B60	B61	B67	B7	B73	B81	Other	% POS	B27	B42	B67	B7	B73	B81	B48	B54	B55	B56	B60	B61	B82	Other	Method
Colombe, Beth W. F	21	+	+	+	+	+	+	+	+	+	+	+	+	+	B82,A6602	16	+	+	+	+	+	+	+	+	+	+	+	+	+		C1q
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	A66,B82,B54,Cw2		+	+	+	+	+	+	+	+	+	+	+	+	+	Cw1	C1q
Pancoska, Carol PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	A6602		+	+	+	+	+	+									C1q

		**** Serum 1231 ****														**** Serum 1232 ****															
Investigator	% POS	B8	B59												Other	% POS	B8	B59										Other	Method		
Colombe, Beth W. F	4	+	+													3	+	+											C1q		
Liu, Chang MD, PhD		+	+												B7,B71		+	+									B54,B64,B65,B42 >	C1q			
Pancoska, Carol PhD		+															+											C1q			

Table 25. Individual laboratory results for Serum #1229-1232 by Other and Flow Cytometry - class I

	**** Serum 1229 ****														**** Serum 1230 ****										
Investigator	% POS	B13	B35	B41	B42	B47	B48	B53	B54	B55	B56	B57	Other	% POS	B42	B54	B55	B56	B60	B61	B67	B7	B81	Other	Method
Liu, Chang MD, PhD	85													80											Other
Reed, Elaine F. PhD	78	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B82,B7 >	66	+	+	+	+	+	+	+	+	+		Other

	**** Serum 1231 ****													**** Serum 1232 ****												
Investigator	% POS	B18	B35	B39	B41	B42	B45	B48	B50	B54	B55	B56	Other	% POS	B18	B42	B8								Other	Method
Liu, Chang MD, PhD	87													82											Other	Other
Reed, Elaine F. PhD	84	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B78,B62 >	76	+	+	+								Other	Other

Other = Luminex PRA

	**** Serum 1229 ****													**** Serum 1230 ****													
Investigator	% POS													Other	% POS											Other	Method
Chen, Dong-Feng P	93														91												FC
Eckels/CPMC	92														95												FC

	**** Serum 1231 ****													**** Serum 1232 ****												
Investigator	% POS												B56	Other	% POS										Other	Method
Chen, Dong-Feng P	86														96											FC
Eckels/CPMC	82														96											FC

FC = Flow Cytometry

Table 26. Individual laboratory results for Serum #1229 by Luminex - class I

	**** Serum 1229 ****																																					
Investigator	% POS	B42	B54	B55	B56	B67	B7	B27	B53	B57	B58	B73	B63	B35	B8	B13	B47	B60	B61	B41	Cw2	B48	Cw17	B49	B82	A32	B51	B81	B75	B59	B77	A6602	B50	Cw1	B37	Other	Method	
Al-Attas, Rabab A. M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B62,A74,A80 >	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+				A66,B2708,B*51:02>	LMX	
Bengochea, Carrette	53	+	+	+	+	+	+		+	+	+		+	+	+					+				+	+		+		+	+	+		+	+	+	B78,B62,B52,A1 >	LMX	
Cecka, J. Michael P	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+						LMX
Chen, Dong-Feng P	93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	B62,A74,B71,B8101 >	LMX	
Colombe, Beth W. F	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A74	LMX	
Daniel, Dolly	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	Cw4,B40,A66,B78 >	LMX	
Du, Keming	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	A66	LMX	
Dunckley, Heather	96	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B62 >	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		B2708	LMX	
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B62,B52,A25 >	LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B78,B62,A74,A80 >	LMX	
Hamdi, Nuha	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		A66,B78,Cw15	LMX	
Hogan, Patrick	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							+				B703,B8101,B2708	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B62 >	LMX	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+			+								A66,B2708	LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	A66,B78,B62,A74 >	LMX
Mayne, Elizabeth	32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				+	+		+	B40,B15,A66,B703 >	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B62 >	LMX	
Pancoska, Carol Ph	55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B78,B62,B52,A74 >	LMX	
Pule, Ziningi	68	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	Cw4,A24,A66,B78 >	LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+				B*51:02	LMX
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									A66	LMX
V.Brouard, M.Tonye	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	B62,A74,A80,B46 >	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	B78,B62,B52,A25 >	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B62 >	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A66,B78,B62 >	LMX	
Xu, Ri		+	+	+	+	+	+	+				+			+																					A66,B703,B5C,B8C >	LMX	

Table 27. Individual laboratory results for Serum #1230 by Luminex - class I

	**** Serum 1230 ****																																					
Investigator	% POS	B42	B54	B55	B56	B67	B7	A3	B27	B57	B60	B61	B73	B63	B64	B48	Cw1	Cw14	B47	B58	B13	Cw2	B39	B81	B82	A24	B46	Cw9	Cw15	A80	Cw10	A6602	A66	A1	A23	Other	Method	
Al-Attas, Rabab A. M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+			+	+			B8101,B2708,B8201,B3901	LMX	
Bengochea, Carrette	30	+	+	+	+	+	+				+	+			+									+												B78,B62,B50,B75 >	LMX	
Cecka, J. Michael P	71	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+						+				A36,B8101,A2403,B2708 >	LMX
Chen, Dong-Feng P	90	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	A36,B8101,A2403,B2708 >	LMX
Colombe, Beth W. F	79	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Daniel, Dolly	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+		+	+	+			A11,B40,B15,B703 >	LMX
Du, Keming	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+		+		+				LMX	
Dunckley, Heather	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A25,A29,A30 >	LMX
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+		+	+	+	A11,B2708	LMX
Fort, Marylise		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A25,A29,A32 >	LMX
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11	LMX
Hamdi, Nuha	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Hogan, Patrick	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,B8101,B2708	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A25,A34,A29 >	LMX
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B2708	LMX
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Mayne, Elizabeth	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B40,B15,B703,B14 >	LMX
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A25,A26,A34 >	LMX
Pancoska, Carol Ph	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A11,A36,Cw17	LMX
Pule, Ziningi	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,A25,A26 >	LMX
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							+				LMX	
V.Brouard, M.Tonye	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+		+	+	B8101,A2403,B2708,B8201 >	LMX
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+	+	+	+	+	A25,A29,A30,A32 >	LMX
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,B44,A25 >	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B703,A2403,B5C,B8C >	LMX
Xu, Ri		+	+	+	+	+	+	+	+	+			+	+																			+				LMX	

Table 28. Individual laboratory results for Serum #1231 by Luminex - class I

	**** Serum 1231 ****																																						
Investigator	% POS	B54	B55	B56	B7	B18	B35	B42	B45	B60	B61	B62	B67	B71	B72	B76	B8	B41	B59	B64	B65	B75	B50	B48	B39	B78	B82	B81	B73	Cw7	Cw9	B2708	B46	Cw1	B27	Other	Method		
Al-Attas, Rabab A. M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10,Cw8	LMX		
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B8101,B7801,B8201,B3901	LMX		
Bengochea, Carrette	25	+	+	+	+			+		+	+		+								+						+	+				+		+	+	A66,B13,B47,B703 >	LMX		
Cecka, J. Michael P	82	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+					+	+	Bw6	LMX	
Chen, Dong-Feng P	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+		B8101,Cw10,Cw8,B7801 >	LMX	
Colombe, Beth W. F	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10	LMX	
Daniel, Dolly	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+		+	+	B40,B15,B70,B703 >	LMX	
Du, Keming	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		LMX	
Dunckley, Heather	94	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw10,Cw8,Cw14,Cw16	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Bw6	LMX	
Fort, Marylise	NT																																					LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10	LMX	
Hamdi, Nuha	67	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Cw10,Cw8	LMX	
Hogan, Patrick	30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+					+			+	+	B703,B8101,B7801	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw10,Cw8,Cw14,Cw16	LMX	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+					+						LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Cw10	LMX
Mayne, Elizabeth	31	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+			+	+	B40,B15,B703,B14 >	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Cw10,Cw8,Cw14,Cw12 >	LMX
Pancoska, Carol Ph	87	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Bw6,Cw10,Cw8	LMX	
Pule, Ziningi	48	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Cw4,Cw6,B44,A33 >	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+				+			LMX	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	Cw8	LMX	
V.Brouard, M.Tonye	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+	+	+	+	+	+	+	+	B8101,Bw6,Cw10,Cw8 >	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	+	+	+	+	+	+	B8101,Cw10,Cw8,B7801 >	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6,Cw10,Cw8,Cw14 >	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63,Bw6,Cw10,Cw8 >	LMX	
Xu, Ri		+	+	+	+	+	+		+			+	+	+	+	+	+										+						+			B12C,B5C,B8C,B7C >	LMX		

Table 29. Individual laboratory results for Serum #1232 by Luminex - class I

	**** Serum 1232 ****																																						
Investigator	% POS	B54	B55	B8	A29	A33	A34	A68	A69	B42	B65	B67	B18	B37	B38	B41	B59	B64	Cw16	Cw1	Cw8	Cw12	Cw4	Cw14	A3	A31	A32	Cw18	Cw5	Cw6	A74	A30	Cw15	A36	B39	Cw7	Other	Method	
Al-Atlas, Rabab A. M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,B46,Cw2	LMX	
Arnold, Paula PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B3901	LMX	
Bengochea, Carrette	31	+	+	+						+		+																									A24,B60,B61,B48 >	LMX	
Cecka, J. Michael P	69	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Chen, Dong-Feng P	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A23,B46,Cw2 >	LMX	
Colombe, Beth W. F	98	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Daniel, Dolly	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A19,A23,A28 >	LMX	
Du, Keming	41	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
Dunckley, Heather	99	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B61,B48 >	LMX	
Eckels/CPMC,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A23	LMX	
Fort, Marylise	NT																																					LMX	
Hahn, Amy B. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A23,B46,A6602	LMX	
Hamdi, Nuha	65	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61	LMX	
Hogan, Patrick	39	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						+	+	A6602	LMX	
Holdsworth, Rhonda		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B61,B48 >	LMX	
Lardy, N.M.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+											+			LMX	
Liu, Chang MD, PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX
Mayne, Elizabeth	40	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B14,B3901	LMX	
McCluskey, James		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B61,B48 >	LMX	
Pancoska, Carol Ph	85	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A23,B46,Cw2 >	LMX	
Pule, Ziningi	63	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B61,B48 >	LMX	
Reed, Elaine F. PhD		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61	LMX	
Sacchi, Nicoletta		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		LMX	
V.Brouard, M.Tonye	47	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B61,A23,B46 >	LMX	
Vasilescu, Rodica		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A203,B61,A23,B46 >	LMX	
Vather/JHB,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A2,B61,B48 >	LMX	
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A24,A203,A2,B61 >	LMX	
Xu, Ri		+	+	+	+	+	+	+	+		+														+												B8C,B7C,A1C,A10C >	LMX	

Table 30. Individual laboratory results for Serum #1229 - #1232 by various methods class II

	**** Serum 1229 ****					**** Serum 1230 ****					**** Serum 1231 ****			**** Serum 1232 ****			
Investigator	% POS			Other	% POS				Other	% POS		Other		% POS		Other	Method
Reed, Elaine F. PhD	48				16					11				11			Ext

Ext = NIH-Extended

	**** Serum 1229 ****				**** Serum 1230 ****				**** Serum 1231 ****				**** Serum 1232 ****				
Investigator	% POS	DR7	DQ2	DQA1*05	Other	% POS				Other	% POS		Other	% POS		Other	Method
Colombe, Beth W. F	6	+	+	+		0					0			0			C1q
Liu, Chang MD, PhD		+	+														C1q
Pancoska, Carol Ph		+				0					0			0			C1q

	**** Serum 1229 ****				**** Serum 1230 ****				**** Serum 1231 ****				**** Serum 1232 ****				
Investigator	% POS	DQ2	DR4	DR7	Other	% POS	DQ4	DQ5	DQ6	DR15	DR16	DR51	Other	% POS		Other	Method
Liu, Chang MD, PhD	54					89								0			Other
Reed, Elaine F. PhD	40	+	+	+		73	+	+	+	+	+	+		0			Other

Other = Luminex PRA

	**** Serum 1229 ****				**** Serum 1230 ****				**** Serum 1231 ****				**** Serum 1232 ****				
Investigator	% POS			Other	% POS			Other	% POS		Other		% POS		Other	Method	
Chen, Dong-Feng P	57				97				0				66			FC	
Eckels/CPMC	58				90				0				66			FC	
FC = Flow Cytometry																	

Table 31. Individual laboratory results for Serum #1229 - #1230 by Luminex - class II

	**** Serum 1229 ****													**** Serum 1230 ****																				
Investigator	% POS	DQ2	DR7	DR4	DQA1*02	DR12	DR1	DR13	DR52	DR8	DR14	DQ4	Other	% POS	DQ6	DR15	DQ5	DR16	DQ4	DR51	DPw3	DPw6	DP14	DP17	DP9	DP20	DP10	DP11	DP19	DPw1	DPw5	DQA1*01	Other	Method
Al-Attas, Rabab A		+		+	+							+			+	+	+	+	+	+	+	+	+	+	+	+	+					+		LMX
Arnold, Paula PhD		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+	+					+		LMX
Bengochea, Carre	17	+	+	+		+	+						DR16	29	+	+	+	+	+	+	+	+				+	+							LMX
Cecka, J. Michael	40	+	+											71	+	+	+	+	+	+														LMX
Chen, Dong-Feng	63	+	+	+	+									58	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					LMX
Colombe, Beth w.	63	+	+	+	+									58	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Daniel, Dolly	19	+	+	+	+	+	+	+	+	+			DR16	29	+	+	+	+	+	+	+	+	+	+	+					+	+	+	DR2,DR11,DQ1,DPA1*01	LMX
Du, Keming	17	+	+	+								+	DQ7,DQ8,DQ9	31	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Dunckley, Heathe	91	+	+	+	+	+		+	+	+	+			93	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR7,DPw2,DPw4,DP18 >	LMX
Eckels/CPMC,		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+								LMX
Fort, Marylise		+	+	+											+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DR7,DR9,DPw2	LMX	
Hahn, Amy B. PhD		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+									LMX
Hamdi, Nuha	51	+	+	+								+	DQ7,DQ8,DQ9	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				LMX
Hogan, Patrick	19	+	+	+	+	+	+						DR16	35	+	+	+	+	+	+	+	+	+	+	+						+	DR11,DR17	LMX	
Holdsworth, Rhon		+	+	+	+	+		+	+	+	+		DRB3*03:01, DRB3*01:01, DRB1*13:03		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		DR1,DR103,DR7,DPw2 >	LMX	
Liu, Chang MD, P		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+						DR9	LMX	
Mayne, Elizabeth	19	+	+	+		+	+						DR16	27	+	+	+	+	+	+	+	+	+	+	+							+		LMX
McCluskey, Jame		+	+	+	+	+	+	+	+	+	+		DRB3*03:01, DRB3*01:01, DRB1*13:03 >		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DR1,DR103,DR7,DR9 >	LMX	
Pancoska, Carol F	80	+	+	+	+									97	+	+	+	+	+		+	+	+	+	+	+	+	+	+					LMX
Pule, Ziningi	41	+	+	+		+	+	+	+	+	+	+	DR16,DQ7,DQ8,DQ9	49	+	+	+	+	+	+												DR1,DR103,DR9	LMX	
Reed, Elaine F. P		+	+	+	+										+	+	+	+	+	+	+	+	+	+	+	+								LMX
Sacchi, Nicoletta		+	+	+								+	DQ7,DQ8,DQ9		+	+	+	+	+	+	+	+	+	+	+	+								LMX
V.Brouard, M.Ton	37	+	+	+	+									26	+	+	+	+	+	+	+	+	+	+	+	+	+							LMX
Vather/JHB,		+	+	+	+			+	+	+	+	+	DQA1*04,DQA1*05		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*03,DQA1*04	LMX
Vather/Pinetown,		+	+	+	+	+	+	+	+	+	+		DQA1*05		+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	DPA1*03,DQA1*03	LMX	
Xu, Ri		+	+	+											+	+	+	+	+	+	+	+												LMX

Table 32. Individual laboratory results for Serum #1231 - #1232 by Luminex - class II

Investigator	**** Serum 1231 ****								**** Serum 1232 ****								Method
	% POS	DQ5	DQ6	DR14	DR15	DR16	DR53	Other	% POS	DR17	DR18	DR52	DR8	DR14	DR13	Other	
Al-Attas, Rabab A.	0									+	+	+					LMX
Arnold, Paula PhD										+	+						LMX
Bengochea, Carre	0								0								LMX
Cecka, J. Michael	0								0								LMX
Chen, Dong-Feng										+	+	+					LMX
Colombe, Beth w.	0								0								LMX
Daniel, Dolly	0								1	+	+	+	+	+		DR3,DR1404	LMX
Du, Keming									9	+	+	+	+	+	+		LMX
Dunckley, Heather	8							DR12	54	+	+	+					LMX
Eckels/CPMC,										+	+	+				DRB3*01:01, DRB3*03:01	LMX
Fort, Marylise	NT								NT								LMX
Hahn, Amy B. PhD																	LMX
Hamdi, Nuha	0								29	+	+						LMX
Hogan, Patrick	0								7	+	+	+	+	+		DR1404	LMX
Holdsworth, Rhonda										+	+	+	+	+	+	DR11	LMX
Liu, Chang MD, PhD										+	+						LMX
Mayne, Elizabeth	0								0								LMX
McCluskey, James										+	+	+	+	+	+	DR11, DRB3*01:01, DRB3*03:01	LMX
Pancoska, Carol P	0								74	+	+	+					LMX
Pule, Ziningi	15	+	+	+	+	+	+		15	+	+	+	+	+	+	DR11,DQ2	LMX
Reed, Elaine F. PhD	0								0								LMX
Sacchi, Nicoletta	0								0								LMX
V.Brouard, M.Tony	0								29	+							LMX
Vather/JHB,		+	+	+	+	+	+	DR4,DR51,DPw1,DP14 >		+	+	+	+	+	+		LMX
Vather/Pinetown,	0									+	+	+	+	+	+		LMX
Xu, Ri																	LMX