

SERUM EXCHANGE #559 NOVEMBER 7, 2017

Sera	1229-1232
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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	50	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									
	Flow	2	no specificities assigned																																				
Luminex	28	100	79	25	96	43		93	93		93	100	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	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	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	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		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	7	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.



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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	
Reed, Elaine F. PhD	84	+	+	+	+	+	+	+	+	+	+	+	B60,B61,B78,B62 >	76	+	+	+								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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+									+		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,		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Cw4,A11,B44,A25 >	LMX
Xu, Ri		+	+	+	+	+	+	+	+	+			+	+																						+	B703,A2403,B5C,B8C >	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-Attas, 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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B61,A23,B46,Cw2 >	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	DC2	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	DC2	DR4	DR7	Other	% POS	DC4	DC5	DC6	DR15	DR16	DR51	Other	% POS	Other	% POS	Other	Method
Liu, Chang MD, PhD	54					89								0		0		Other
Reed, Elaine F. PhD	40	+	+	+		73	+	+	+	+	+	+		0		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

Investigator	**** Serum 1229 ****													**** Serum 1230 ****													Method								
	% 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	
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 F	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