

# SERUM EXCHANGE #573

JANUARY 15, 2020

Sera	1285-1288
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The results for **Serum Exchange 573 (sera 1285 - 1288)** are summarized in Tables 36 - 42 and individual laboratory results by method are listed in Tables 43 - 54. Sera strongly positive to B12 (B44, B45), DQ3 (DQ7, DQ8,

DQ9), DR7, as well as sera positive to 1C and 10C specificities were examined in this study.

1285	method	#labs	A24	A2403	A1	A11	A1101	A23	A1102	A3	A36	A80	B13	B76	A32	B71	B35	B39	B45
class I	NIH-Std	1	NT																
	NIH-Ext	2											50%						
	AHG	2	50%		50%	50%													
	Flow	3	no specificities assigned																
	C1q	2	50%																
	Other	2	50%		50%	50%		50%		50%	50%	50%							
	Luminex	26	100%	26%	100%	92%	19%	100%	19%	100%	100%	100%		96%	69%	69%	69%	65%	65%

1285	method	#labs	B75	B72	A25	B46	B50	B62	B57	B60	Cw10	Cw9	B41	B48	B61	B58	B18	B64	B78
	Luminex	26	62%	62%	58%	58%	58%	58%	58%	58%	54%	54%	50%	50%	50%	50%	42%	42%	35%

1285	method	#labs	DQ7	DQ8	DQ9	DQ6	DR4	DR7	DR8	DPw3	DR11	DPw6	DR16	DR9	DR15	DP14	DP17	DP9	DPw1
class II	NIH-Ext	1	Undefined																
	Flow	3	no specificities assigned																
	C1q	1	no consensus																
	Other	2	50%	50%	50%	50%	50%	50%											
	Luminex	24	96%	96%	96%	88%	96%	88%	96%	92%	92%	88%	79%	79%	75%	75%	75%	75%	75%

1285	method	#labs	DP19	DQ4	DP11	DP20	DR1	DPw5	DR53	DQA1*05	DP13	DP10	DQA1*06	DQA1*03	DPA1*02	DPA1*03	DQA1*01
	Luminex	21	71%	71%	58%	58%	46%	38%	38%	29%	29%	25%	25%	21%	13%	13%	13%

Other = Luminex PRA  
 \*(median MFI)

For **Serum 1285**, anti-A24 (7795) reactivity was detected in this sample by antiglobulin, C1q, and Luminex. Additional reactivity to a number of other 1C specificities, including A1 (7897), A11 (5311), A3 (8657), A36 (6968), and A80 (8869) was also reported by various methods. Each were reported by > 90% of Luminex labs. In addition, Luminex reported anti-B39 (2406), -B45

(2519), and -A25 (2859) reactivity, as well as reactivity to a number of 5C specificities. Class II reactivity was also reported in this sample, with Luminex SAB and Luminex PRA reporting anti-DQ7 (8371), -DQ8 (6154), -DQ9 (8227) -DQ6 (2664), -DR4 (9513), and -DR7 (2671) reactivity. Additional reactivity to a number of DR and DP anti-sera was also reported by Luminex SAB.

1286	method	#abs	B44	B45	B49	B50	B35	B62	B75	B18	B53	B60	B61	B70	B71	B72	B77	B78	B41	B13	B56
class I	NIH-Std	1	NT																		
	NIH-Ext	2	50%																		
	AHG	2	50%	50%	50%	50%	50%	50%	50%					50%					50%		
	Flow	3	no specificities assigned																		
	C1q	2	NT																		
	Other	2	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%		50%	50%	50%	50%			
	Luminex	26	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		100%	100%	100%	96%	100%	100%	100%

1286	method	#abs	B76	B63	B38	B47	B52	B51	B64	B59	B48	B37	B39	B3901	B57	B58	B46	B65	B8	B82
	Luminex	26	100%	100%	100%	96%	96%	92%	92%	92%	88%	88%	88%	22%	77%	65%	73%	73%	50%	42%

1286	method	#abs	DR103	DR1	DR7	DR10	DR51	DR9	DR53	DPw1	DPw2	DPw3	DPw5	DPw6
class II	NIH-Ext	1	Undefined											
	Flow	3	no specificities assigned											
	C1q	1	NT											
	Other	2	50%	50%	50%	50%								
	Luminex	21	76%	76%	71%	38%	67%	38%	29%	24%	24%	24%	24%	

1286	method	#abs	DP11	DP13	DP14	DP15	DP18	DP19	DP9	DPA1*01	DPA1*03	DPA1*04	DPw4	DQ6	DR4
	Luminex	21	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	14%

Anti-B44 (8117) reactivity was reported in **Sample 1286** by NIH-extended, antigloblin, Luminex SAB and Luminex PRA. Additional reactivity to a number of 5C and 7C specificities, including anti-B49 (5982), -B50 (9448), -B35 (7453), -B62 (10330), -B75 (7626), -B60 (5361), and -B61 (4968) was reported by various methods. Weak class II reactivity was also reported in this

sample, with Luminex SAB and Luminex PRA reporting reactivity to DR103 (1391), DR1 (1149), DR7 (1424), and DR10 (892). Additional reactivity to a number of DP specificities was also reported by Luminex SAB. This sample was not graded for class II as the consensus for each of the DR specificities reported was <90%.

1287	method	#abs	A25	A26	A34	A10	A11	A1101	A1102	A66	A6601	A6602	A1	A36	A80	A43	A68	A32	B73	B44	B45	B41	B42	B55	
class I	NIH-Std	1	no consensus																						
	NIH-Ext	2	100%	100%	100%		100%			100%															
	AHG	2	50%	50%	50%	50%	100%			50%			100%	50%				50%		50%				50%	
	Flow	3	no specificities assigned																						
	C1q	2	100%	100%	100%		100%				50%		100%	100%	100%	100%									
	Other	2	50%	50%	50%		50%			50%			50%	50%	50%		50%			50%	50%	50%	50%		
	Luminex	26	100%	100%	100%		92%	19%	19%	92%	19%	19%	100%	100%	100%	100%	100%		100%	96%	96%	96%	96%	96%	

1287	method	#abs	Cw6	B61	B47	B49	B50	B7	B67	B54	B56	Cw7	B38	B60	B71	B37	B82	Cw18	B59	B18	B72	B13	B39	B81
	C1q	2	50%																					
	Other	2		50%																				
	Luminex	26	92%	88%	96%	96%	96%	96%	96%	96%	92%	92%	88%	88%	88%	85%	85%	85%	81%	81%	81%	77%	77%	77%

1287	method	#abs	Cw4	B48	B52	B64	B27	B58	A2	B51	B65	A69	B76	B78	B8	B53	B35	A24	A2403	Cw12	Cw15	A33	A29
	Luminex	26	77%	73%	73%	69%	62%	62%	58%	58%	58%	54%	54%	54%	46%	42%	38%	31%	27%	27%	27%	23%	19%

1287	method	#abs	DR7	DR9	DQ2	DR12	DR52	DR53	DQA1*05	
class II	NIH-Ext	1	Undefined							
	Flow	3	no specificities assigned							
	C1q	1	NT							
	Other	2	50%	50%	50%	50%				
	Luminex	24	100%	96%	96%	83%	92%	63%	13%	

Other = Luminex PRA

For **Serum 1287**, anti-A10 (A25, A26, A34, A66) and –A11 reactivity was reported by all methods. Median MFI values reported for each were 20163, 18788, 14990, 15577, and 19454, respectively. Additional reactivity to A1, A36, A80, A43, A68, B44, B45, Cw6, as well as reactivity to a number of 5C

and 7C specificities was reported by various methods. Class II reactivity was also detected in this cell with Luminex SAB and PRA reporting anti-DR7 (6545), -DR9 (2587), -DQ2 (3592), and -DR12 (1522) reactivity. Additional anti-DR52 (2700) reactivity was also reported by 92% of Luminex labs.

1288	method	#labs	NEG	A25	A3	B44
class I	NIH-Std	1	NT			
	NIH-Ext	2	Undetermined			
	AHG	2	50%			
	Flow	3	no specificities assigned			
	C1q	2	NT			
	Other	2	50%			
	Luminex	20	45%	50%	20%	5%

1288	method	#labs	DR7	DR9	DPw3	DPw6	DR53	DPw2	DP9	DP14	DP18	DP17	DP20	DP28	DP10	DPw4	DP402	DR11	DP11	DP19	DPA1*01	DPA1*04
class II	NIH-Ext	1	Undefined																			
	Flow	3	no specificities assigned																			
	C1q	1	no consensus																			
	Other	2	50%	50%																		
	Luminex	24	100%	96%	96%	96%	92%	92%	88%	88%	88%	83%	71%	71%	67%	67%	29%	29%	13%	13%	13%	13%

**Sample 1288** was not graded for class I as only 50% of labs reporting by Luminex SAB reported anti-A25 (1589) reactivity, while 45% reported it as negative. One lab reporting by antiglobulin and 1 lab reporting by PRA also reported this sample as negative for class I. By contrast, strong class II reactivity was detected in this sample, with C1q, Luminex SAB and Luminex PRA

reporting anti-DR7 (18944) reactivity. Anti-DR9 (2256) reactivity was also reported by Luminex SAB and PRA. Additional reactivity to a number of DP specificities, including DP3 (5736) and DP6 (5896) was also reported by Luminex SAB.

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**Table 36. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by NIH-Standard and NIH-Extended - class I**

Method: NIH-Standard											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
1 typing Labs			1 typing Labs			1 typing Labs			1 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
NT			NT			no consensus			no consensus		

Method: NIH-Extended											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
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%	75%	B44	50%	70%	A11	100%	100%	undefined		
						A25	100%	100%			
						A26	100%	100%			
						A34	100%	100%			
						A66	100%	100%			

**Table 37. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Antiglobulin and Flow - class I**

Method: Antiglobulin											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	50%	100%	B44	50%	100%	A1	100%	100%	NEG	50%	-
A24	50%	100%	B45	50%	100%	A11	100%	100%			
A11	50%	75%	B49	50%	100%	A10	50%	100%			
			B50	50%	100%	A25	50%	100%			
			B62	50%	100%	A26	50%	100%			
			B70	50%	100%	A34	50%	100%			
			B75	50%	100%	A36	50%	100%			
			B41	50%	50%	A66	50%	100%			
			B35	50%	40%	A32	50%	83%			
						B55	50%	80%			
						B44	50%	75%			

  

Method: Flow Cytometry											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
3 typing Labs			3 typing Labs			3 typing Labs			3 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 38. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Other and C1q - class I**

Method: Other											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	50%	100%	B18	50%	100%	A1	50%	100%	NEG	50%	-
A11	50%	100%	B35	50%	100%	A11	50%	100%			
A23	50%	100%	B44	50%	100%	A25	50%	100%			
A24	50%	100%	B45	50%	100%	A26	50%	100%			
A3	50%	100%	B49	50%	100%	A34	50%	100%			
A36	50%	100%	B50	50%	100%	A36	50%	100%			
A80	50%	100%	B53	50%	100%	A66	50%	100%			
			B60	50%	100%	A68	50%	100%			
			B61	50%	100%	A80	50%	100%			
			B62	50%	100%	B41	50%	100%			
			B71	50%	100%	B42	50%	100%			
			B72	50%	100%	B44	50%	100%			
			B75	50%	100%	B45	50%	100%			
			B77	50%	100%	B61	50%	100%			
			B78	50%	100%						

Other = Luminex PRA

Method: C1q											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A24	50%	100%	NT			A1	100%	100%	NT		
						A11	100%	100%			
						A25	100%	100%			
						A26	100%	100%			
						A34	100%	100%			
						A43	100%	100%			
						A80	100%	100%			
						A36	50%	100%			
						A66	50%	100%			
						A6601	50%	100%			
						Cw6	50%	100%			

**Table 39. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Luminex - class I**

Method: Luminex											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
26 typing Labs			26 typing Labs			26 typing Labs			20 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
A1	100%	100%	B13	100%	100%	A1	100%	100%	A25	50%	100%
A23	100%	100%	B18	100%	100%	A25	100%	100%	NEG	45%	-
A24	100%	100%	B35	100%	100%	A26	100%	100%	A3	20%	100%
A3	100%	100%	B38	100%	100%	A34	100%	100%	B44	5%	50%
A36	100%	100%	B41	100%	100%	A36	100%	100%			
A80	100%	100%	B44	100%	100%	A43	100%	100%			
B76	96%	100%	B45	100%	100%	A68	100%	100%			
A11	92%	100%	B49	100%	100%	A80	100%	100%			
A32	69%	100%	B50	100%	100%	B73	100%	100%			
B71	69%	100%	B53	100%	100%	B41	96%	100%			
B35	69%	80%	B56	100%	100%	B42	96%	100%			
B39	65%	100%	B60	100%	100%	B44	96%	100%			
B45	65%	100%	B61	100%	100%	B45	96%	100%			
B75	62%	80%	B62	100%	100%	B47	96%	100%			
B72	62%	75%	B71	100%	100%	B49	96%	100%			
A25	58%	100%	B72	100%	100%	B50	96%	100%			
B46	58%	100%	B75	100%	100%	B54	96%	100%			
B50	58%	100%	B76	100%	100%	B55	96%	100%			
B62	58%	100%	B77	100%	100%	B67	96%	100%			
B57	58%	83%	B63	100%	75%	B7	96%	100%			
B60	58%	80%	B47	96%	100%	A11	92%	100%			
Cw10	54%	100%	B52	96%	100%	A66	92%	100%			
Cw9	54%	100%	B78	96%	100%	Cw6	92%	100%			
B41	50%	100%	B51	92%	100%	Cw7	92%	100%			
B48	50%	100%	B64	92%	100%	B56	92%	67%			
B58	50%	100%	B59	92%	67%	B38	88%	100%			
B61	50%	100%	B37	88%	100%	B60	88%	100%			
B18	42%	100%	B48	88%	100%	B61	88%	100%			
B64	42%	100%	B39	88%	67%	B71	88%	100%			
B78	35%	100%	B57	77%	50%	B37	85%	100%			
A2403	26%	100%	B46	73%	67%	B82	85%	100%			
A1101	19%	100%	B65	73%	50%	Cw18	85%	100%			
A1102	19%	100%	B58	65%	100%	B59	81%	100%			
			B8	50%	100%	B18	81%	80%			
			B82	42%	100%	B72	81%	75%			



**Table 39. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Luminex - class I**

**Method: Luminex - cont.**

*** Serum 1286 ***		
26 typing Labs		
Antigen	Consensus	Inclusion
B3901	22%	100%

*** Serum 1287 ***		
27 typing Labs		
Antigen	Consensus	Inclusion
B13	77%	100%
B39	77%	100%
B81	77%	100%
Cw4	77%	100%
B48	73%	100%
B52	73%	100%
B64	69%	100%
B27	62%	100%
B58	62%	100%
A2	58%	100%
B51	58%	100%
B65	58%	100%
A69	54%	100%
B76	54%	100%
B78	54%	100%
B8	46%	100%
B53	42%	100%
B35	38%	100%
A24	31%	100%
A2403	27%	100%
Cw12	27%	100%
Cw15	27%	100%
A33	23%	100%
A1101	19%	100%
A1102	19%	100%
A6601	19%	100%
A6602	19%	100%
A29	19%	50%

**Table 40. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by NIH-Extended and Flow Cytometry - class II**

Method: NIH-Extended											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
1 typing Lab			1 typing Lab			1 typing Lab			1 typing Lab		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
undefined			undefined			undefined			undefined		

Method: Flow Cytometry											
<b>*** Serum 1285 ***</b>			<b>*** Serum 1286 ***</b>			<b>*** Serum 1287 ***</b>			<b>*** Serum 1288 ***</b>		
3 typing Labs			3 typing Labs			3 typing Labs			3 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 41. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Other and C1q - class II**

Method: Other											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
2 typing Labs			2 typing Labs			2 typing Labs			2 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ6	50%	100%	DR1	50%	100%	DQ2	50%	100%	DR7	50%	100%
DQ7	50%	100%	DR10	50%	100%	DR12	50%	100%	DR9	50%	100%
DQ8	50%	100%	DR103	50%	100%	DR7	50%	100%			
DQ9	50%	100%	DR7	50%	100%	DR9	50%	100%			
DR4	50%	100%									
DR7	50%	100%									

Other = Luminex PRA

Method: C1q											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
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			NT			NT			no consensus		

**Table 42. Summary of the 573<sup>rd</sup> Serum Exchange (Serum #1285-1288) by Luminex - class II**

Method: Luminex											
*** Serum 1285 ***			*** Serum 1286 ***			*** Serum 1287 ***			*** Serum 1288 ***		
24 typing Labs			21 typing Labs			24 typing Labs			24 typing Labs		
Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion	Antigen	Consensus	Inclusion
DQ7	96%	100%	DR103	76%	100%	DR7	100%	100%	DR7	100%	100%
DQ8	96%	100%	DR7	76%	100%	DR9	96%	100%	DPw3	96%	100%
DQ9	96%	100%	DR51	71%	100%	DQ2	96%	80%	DPw6	96%	100%
DR4	96%	100%	DR1	67%	100%	DR52	92%	41%	DR9	96%	71%
DR8	96%	80%	DR10	38%	100%	DR12	83%	88%	DR53	92%	76%
DPw3	92%	100%	DR9	38%	100%	DR53	63%	100%	DPw2	92%	67%
DR11	92%	100%	DR53	29%	100%	DQA1*05	13%	100%	DP14	88%	100%
DPw6	88%	100%	DPw1	24%	100%				DP18	88%	100%
DR7	88%	100%	DPw2	24%	100%				DP9	88%	100%
DQ6	88%	83%	DPw3	24%	100%				DP17	83%	100%
DR16	79%	100%	DPw5	24%	100%				DP20	71%	100%
DR9	79%	100%	DPw6	24%	100%				DP28	71%	67%
DP14	75%	100%	DP11	19%	100%				DP10	67%	100%
DP17	75%	100%	DP13	19%	100%				DPw4	67%	50%
DP9	75%	100%	DP14	19%	100%				DP402	29%	100%
DPw1	75%	100%	DP15	19%	100%				DR11	29%	100%
DR15	75%	100%	DP18	19%	100%				DP11	13%	100%
DP19	71%	100%	DP19	19%	100%				DP19	13%	100%
DQ4	71%	100%	DP9	19%	100%				DPA1*01	13%	100%
DP11	58%	100%	DPA1*01	19%	100%				DPA1*04	13%	100%
DP20	58%	100%	DPA1*03	19%	100%						
DR1	46%	100%	DPA1*04	19%	100%						
DPw5	38%	100%	DPw4	19%	100%						
DR53	38%	100%	DQ6	19%	17%						
DQA1*05	29%	100%	DR4	14%	20%						
DP13	29%	33%									
DP10	25%	100%									
DQA1*06	25%	100%									
DQA1*03	21%	100%									
DPA1*02	13%	100%									
DPA1*03	13%	100%									
DQA1*01	13%	100%									

**Table 43. Individual laboratory results for Serum #1285 - 1288 by NIH-Standard and NIH-Extended - class I**

		**** Serum 1285 ****			**** Serum 1286 ****			**** Serum 1287 ****					**** Serum 1288 ****						
Ctr	% POS			Other	% POS			Other	% POS	A10	A11			Other	% POS			Other	Method
786	NT			Other	NT			Other		+	+			Other	NT			Other	STD

STD = NIH-Standard

		**** Serum 1285 ****			**** Serum 1286 ****			**** Serum 1287 ****					**** Serum 1288 ****							
Ctr	% POS	B13		Other	% POS	B44		Other	% POS	A11	A25	A26	A34	A66	Other	% POS			Other	Method
725	6	+			20	+			30	+	+	+	+	+		NT				EXT
3753	6				13				31	+	+	+	+	+		U				EXT

Ext = NIH-Extended

**Table 44. Individual laboratory results for Serum #1285 - 1288 by Antiglobulin and Flow Cytometry - class I**

		**** Serum 1285 ****					**** Serum 1286 ****							**** Serum 1287 ****										**** Serum 1288 ****										
Ctr	% POS	A1	A24	A11	Other	% POS	B44	B45	B49	B50	B62	B70	B75	B41	B35	Other	% POS	A1	A11	A10	A25	A26	A34	A36	A66	A32	B55	B44	Other	% POS			Other	Method
774	42	+	+	+		42	+	+	+	+	+	+	+	+	+		56	+	+		+	+	+	+	+	+	+	+		0				Antiglobulin
786	NT					NT												+	+	+										NT				Antiglobulin

		**** Serum 1285 ****					**** Serum 1286 ****							**** Serum 1287 ****										**** Serum 1288 ****										
Ctr	% POS				Other	% POS									Other	% POS													Other	% POS			Other	Method
3224	81					88										92													3				FC	
5214	96					96										99													0				FC	
8067	82					97										91													18				FC	

FC = Flow cytometry

**Table 45. Individual laboratory results for Serum #1285 - 1288 by Other and C1q - class I**

		**** Serum 1285 ****									**** Serum 1286 ****								**** Serum 1287 ****								**** Serum 1288 ****							
Ctrl	% POS	A1	A11	A23	A24	A3	A36	A80	Other	% POS	B18	B35	B44	B45	B49	B50	B53	Other	% POS	A1	A11	A25	A26	A34	A36	A66	Other	% POS				Other	Method	
2400	80									91									100														Other	Other
3753	64	+	+	+	+	+	+	+		68	+	+	+	+	+	+	+	B60,B61,B78,B62>	80	+	+	+	+	+	+	+	B61,B44,B45,A68>	0					Other	

Other = Luminex PRA

		**** Serum 1285 ****									**** Serum 1286 ****								**** Serum 1287 ****								**** Serum 1288 ****						
Ctrl	% POS	A24							Other	% POS									% POS	A1	A11	A25	A26	A34	A43	A80	Other	% POS					Method
786		+								NT										+	+	+	+	+	+	+	A6601,Cw6	NT					C1q
2400	NT									NT										+	+	+	+	+	+	+	A36,A66	NT					C1q

**Table 46. Individual laboratory results for Serum #1285 by Luminex - class I**

		**** Serum 1285 ****																															
Ctr	% POS	A1	A23	A24	A3	A36	A80	B76	A11	A32	B71	B35	B39	B45	B75	B72	A25	B46	B50	B62	B57	B60	Cw10	Cw9	B41	B48	B58	B61	B18	B64	B78	Other	Method
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Other	Luminex	
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	
774	66	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw6	Luminex		
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex		
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex		
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,B7801,A1101,A1102 >	Luminex		
3632	91	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34	Luminex		
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102,B3901	Luminex			
3808	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1101,A1102	Luminex			
3966	36	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex		
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A34,B63	Luminex		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63,A6601	Luminex		
5219	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A9,B15,B70,A2403 >	Luminex			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex			
6649	16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex			
8045	10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403	Luminex			
8062	NT																														Luminex		
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B63	Luminex		
8086	37	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A34	Luminex			
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A2403,A1C,A2C	Luminex			
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex			
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B15,A2403,A1101,A1102	Luminex			
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex			
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A66,A26,A34,A29 >	Luminex			



**Table 47. Individual laboratory results for Serum #1286 by Luminex - class I**

		**** Serum 1286 ****																																									
Ctr	% POS	B13	B18	B35	B38	B41	B44	B45	B49	B50	B53	B56	B60	B61	B62	B71	B72	B75	B76	B77	B63	B47	B52	B78	B51	B64	B59	B37	B48	B39	B57	B46	B65	B58	B8	Other	Method						
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex						
725		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex					
774	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex					
786		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Bw4,Bw6	Luminex					
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex				
1647		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex				
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex				
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex			
3632	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	B7801,B8201	Luminex				
3753		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex			
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B8C,B3901	Luminex			
3808	34	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,B3901	Luminex			
3966	45	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex			
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,Cw10,Cw9	Luminex		
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Bw4	Luminex		
5219	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B40,B15,B70,B21 >	Luminex			
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex		
6649	35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex			
8045	28	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B3901	Luminex		
8062	NT																																							Luminex			
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82	Luminex		
8086	43	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,A34	Luminex	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B82,B703,B12C,B5C >	Luminex	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B12C,B5C,B8C	Luminex	
8103		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		B40,B15,B82,B7801 >	Luminex	
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex	
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			Luminex



**Table 48. Individual laboratory results for Serum #1287 by Luminex - class I, cont.**

**** Serum 1287 ****													
Ctr	% POS	A69	B76	B78	B8	B53	B35	A24	A2403	Cw12	Cw15	Other	Method
615		+	+	+	+	+	+	+	+	+	+	A33,A*24:03	Luminex
725													Luminex
774	93												Luminex
786		+	+	+	+		+	+		+	+	Bw4,Bw6	Luminex
910		+	+	+		+							Luminex
1647													Luminex
2400													Luminex
3224		+	+		+	+	+		+	+	+	A203,B8101,B2708,B7801 >	Luminex
3632	100	+	+	+	+	+	+		+	+	+	A29,A31,A33	Luminex
3753				+	+								Luminex
3766		+	+					+	+			B8101,A1101,A1102,A6601 >	Luminex
3808	57					+			+			Cw403,B703,B8101,B2708 >	Luminex
3966	58	+	+		+			+				A29	Luminex
4322		+	+	+	+	+	+		+	+	+	A33,Cw1,Cw5,Cw8 >	Luminex
5214		+	+	+	+	+	+	+				A29,A33	Luminex
5219	38			+								B40,B70,A10,B21 >	Luminex
5462			+										Luminex
6649	49			+				+					Luminex
8045	33												Luminex
8062	NT												Luminex
8082		+	+	+	+	+	+			+	+	Cw1,Cw5,Cw8,Cw14	Luminex
8086	75	+	+	+	+	+	+	+		+	+	A29,A31,A33,Cw17	Luminex
8098				+		+	+		+			B703,B12C,B5C,B8C >	Luminex
8100		+	+	+								B12C,A1C	Luminex
8103												A1101,A1102,A6601,A6602	Luminex
8112		+			+								Luminex
8117		+	+	+	+	+	+	+				A29,A31,A33,B2708	Luminex

**Table 49. Individual laboratory results for Serum #1288 by Luminex - class I**

**** Serum 1288 ****				
Ctr	% POS	A25	Other	Method
615		+	A3	Luminex
725				Luminex
774	0			Luminex
786		+		Luminex
910		+		Luminex
1647				Luminex
2400				Luminex
3224		+		Luminex
3632	3	+		Luminex
3753	0			Luminex
3766		+		Luminex
3808	0			Luminex
3966	2	+		Luminex
4322		+	A3	Luminex
5214				Luminex
5219	0			Luminex
5462		+		Luminex
6649	0			Luminex
8045	0			Luminex
8062				Luminex
8082	0			Luminex
8086	3	+	B44,A3	Luminex
8098				Luminex
8100	0			Luminex
8103				Luminex
8112	0			Luminex
8117			A3	Luminex

**Table 50. Individual laboratory results for Serum #1285 - 1288 by NIH-Extended and Flow Cytometry - class II**

**** Serum 1285 ****				**** Serum 1286 ****				**** Serum 1287 ****				**** Serum 1288 ****				
Ctr	% POS		Other	% POS		Other	% POS		Other	% POS	DR7		Other	Method		
3753	16			4			24			16	+			EXT		

Ext = NIH- Extended

**** Serum 1285 ****				**** Serum 1286 ****				**** Serum 1287 ****				**** Serum 1288 ****				
Ctr	% POS		Other	% POS		Other	% POS		Other	% POS			Other	Method		
3224	70			62			52			50				FC		
5214	96			61			64			51				FC		
8067	97			61			67			50				FC		

FC = Flow Cytometry

**Table 51. Individual laboratory results for Serum #1285 - 1288 by Other and C1q - class II**

**** Serum 1285 ****							**** Serum 1286 ****					**** Serum 1287 ****					*** Serum 1288 ***						
Ctr	% POS	DQ6	DQ7	DQ8	DQ9	Other	% POS	DR1	DR10	DR103	DR7	Other	% POS	DQ2	DR12	DR7	DR9	Other	% POS	DR7	DR9	Other	Method
2400	83						11						40						60				Other
3753	80	+	+	+	+	DR4,DR7	50	+	+	+	+		43	+	+	+	+		37	+	+		Other

Other = Luminex PRA

**** Serum 1285 ****						**** Serum 1286 ****					**** Serum 1287 ****					*** Serum 1288 ***					
Ctr	% POS	DQ8			Other	% POS				Other	% POS				Other	% POS	DR7		Other	Method	
2400		+															+				C1q

**Table 52. Individual laboratory results for Serum #1285 by Luminex - class II**

		**** Serum 1285 ****																														
Ctr	% POS	DQ7	DQ8	DQ9	DR4	DR8	DPw3	DR11	DPw6	DR7	DQ6	DR16	DR9	DP14	DP17	DP9	DPw1	DR15	DP19	DQ4	DP11	DP20	DR1	DPw5	DR53	DQA1*05	DP13	DP10	DQA1*06	Other	Method	
615		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DQA1*05:05, DQA1*05:03,DQA1*05:01	Luminex	
774	74					+																										Luminex
910		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+				DQA1*05:01	Luminex	
1647		+	+	+	+																											Luminex
2400		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
3224		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
3632	95	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+							Luminex
3753		+	+	+	+	+	+	+	+	+	+			+	+	+	+		+		+	+				+						Luminex
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
3808	30	+	+	+	+	+	+	+	+	+	+		+	+	+	+															Luminex	
3966	64	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+		+	+	+	+			+	DPA1*02,DPA1*03,DQA1*01,DQA1*02 >	Luminex	
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	DPA1*01,DPA1*02,DPA1*03,DQA1*01 >	Luminex
5214		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+										Luminex
5219	29	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+								DR2,DR5,DQ1,DQ3	Luminex	
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+		DQ2,DQA1*05	Luminex	
6649	49	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					+		DQA1*03	Luminex	
8045	42	+	+	+	+	+	+	+	+	+	+	+	+				+	+		+			+	+							Luminex	
8062	NT																														Luminex	
8082		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+		+	+	+		+	+	DPA1*02,DPA1*03,DQA1*01,DQA1*03	Luminex	
8086	61	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			DQ2	Luminex	
8098		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+			+					+		DQA1*03	Luminex	
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+									Luminex
8103		+	+	+	+	+	+		+			+																		DQ3	Luminex	
8112		+	+	+	+	+	+	+		+	+						+	+	+	+	+	+					+				Luminex	
8117		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		Luminex	





**Table 54. Individual laboratory results for Serum #1288 by Luminex - class II**

**** Serum 1288 ****																			
Ctr	% POS	DR7	DPw3	DPw6	DR9	DR53	DPw2	DP14	DP18	DP9	DP17	DP20	DP28	DP10	DPw4	DP402	DR11	Other	Method
615		+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	DPB1*04:02	Luminex
774	54	+	+	+	+	+	+	+		+	+	+							Luminex
910		+	+	+	+	+	+	+	+	+	+	+		+	+			DRB1*04:02	Luminex
1647		+																	Luminex
2400		+	+	+	+	+	+	+	+	+		+	+	+	+			DR17	Luminex
3224		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	DPw1,DP11,DP19	Luminex
3632	50	+	+	+	+	+	+	+	+	+	+	+	+	+					Luminex
3753		+	+	+	+	+	+	+	+	+	+	+		+					Luminex
3766		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
3808	14	+	+	+	+	+	+	+	+	+	+		+				+		Luminex
3966	23	+	+	+	+	+	+		+			+		+	+			DPA1*01,DPA1*02,DPA1*03,DPA1*04	Luminex
4322		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DPw1,DP11,DP13,DP19 >	Luminex
5214		+	+	+	+	+	+	+	+	+	+	+	+	+		+			Luminex
5219	14	+	+	+	+	+	+	+	+	+	+		+		+				Luminex
5462		+	+	+	+	+	+	+	+	+	+	+	+	+	+			DPB1*04:02	Luminex
6649	15	+	+	+	+	+	+	+	+	+	+		+		+		+		Luminex
8045	17	+	+	+	+	+									+		+		Luminex
8062	NT																		Luminex
8082		+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	DP19,DPA1*01,DPA1*04	Luminex
8086	23	+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8098		+	+	+	+	+	+	+	+	+	+		+		+		+		Luminex
8100		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8103		+	+	+	+		+	+	+	+	+				+				Luminex
8112		+	+	+	+	+	+	+	+	+	+	+	+	+	+				Luminex
8117		+	+	+	+	+	+	+	+	+	+	+	+	+		+		DP11	Luminex