



American Foundation for Donation and Transplantation  
 8154 Forest Hill Avenue, Suite 3  
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 Ph: (804) 323-9890

## AFDT Proficiency Testing PRA Class I Summary Report

### Consensus Results - March 2014 / Ev01

Serum: 159 - 163

#### PRA Class I Introduction:

Five sera (159-163) were tested using CDC/AHG, Phenotypic panels, or Single Antigen panels. Results are graded within each of these methodologies. Results are compared between methods for education purposes to compare sensitivity and correlation with the crossmatch.

Sera 159 and 162: Negative with CDC/AHG; Consensus Negative with Phenotypic and single antigen beads. Many labs did not do specificity since the screening beads were negative. Four labs ran a phenotypic panel and only one lab reported reactivity for a variety of different specificities. Fourteen labs performed CI single antigen beads on this serum. Only B76 was close to reaching consensus, but this bead is known to be false positive, possibly due to a denatured antigen on the bead.

Serum 160: anti-A1,11 reached consensus with CDC/AHG, with anit-A23,24,36 being lose to consensus (67%). Interestingly, these specificities did not reach consensus with the phenotypic panel (43% called positive). The single antigen bead gave excellent consensus for antiA1,3,11,23,24,25,26,29,33,34,36,3,66,70; B44,45,46,47,54,55,56,73,76,81,82;

Cw1,7,8,9,10,12,14,16. It is important when analyzing phenotypic panels that strict MFI cutoffs not be used. Instead, clear patterns of reactivity within antigen families and CREGs are more useful. Because the fluorescence is spread across many beads on the phenotypic beads, the MFI cutoff is usually lower than that seen with single antigen beads.

Serum 161: No consensus was reached for CDC/AHG or for phenotypic beads; However, the single antigen panels were positive for A1.3.11.23.24.25.26.29.30.31.32.33.34.36.43.66.68.69.74;

B7,8,18,27,37,38,39,41,42,47,54,55,56,59,61,64,65,67,73,81,82. A minority of labs called similar specificities on the phenotypic panel. Again this could be explained by MFI cutoffs not being adjusted for the phenotypic panel. The single antigen beads also have a higher density of the antigen, which may result in increased sensitivity.

Serum 163: Negative with CDC/AHG; Phenotypic panel had Positive consensus for anti-A2,B8,18,35,51,52,53,59; Single antigen panel confirmed the specificities found with the phenotypic panel, but also reached consensus for anti-B37,49,50,62,63,65,71,72,75,78; Laboratories using Flow for single antigen may not have tested for some of the specificities detected by the Luminex beads.

Single antigen bead results correlated with the Flow crossmatch results. The phenotypic results did so to a lesser degree. The AHG results correlated with the CDC crossmatch results.

Serum	159	Test	Class I-CDC/AHG																	#Labs with Results:	7	Ttl Cons	1		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	NEGATIVE CONSENSUS			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	0	14	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B82	B01		
0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0			
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								



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Serum	159	Test	Class I-Solid Phase Full Panel (Multi-Antigen)																	#Labs with Results:	4	Ttl Cons	1		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	Negative Consensus			
	0	0	0	0	0	0	25	0	0	25	0	25	0	0	0	0	0	0	0	0					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0	0		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201			
0	0	0	0	0	0	0	0	0	0	25	0	0	0	25	25	0	25	25	0	25	25	0			
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								

  

Serum	159	Test	Class I-Solid Phase Single Antigen																	#Labs with Results:	14	Ttl Cons	1		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	Negative Consensus			
	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	29	36	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201			
0	0	29	0	0	0	7	7	7	0	0	0	0	0	0	0	29	79	14	0	29	0				
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
7	0	0	0	0	7	0	0	0	0	0	7	0	0	0	0	7	0								



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Serum	160	Test	Class I-CDC/AHG																	#Labs with Results:	6	Ttl Cons	3										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	83	0	17	83	67	67	50	33	50	33	17	17	0	33	67	0	50	0	0	0													
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	50	0	17	0	50	0	33	0	0	0	0	0	83	67	0	33	0	0	0	0	0	0	0										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
33	33	0	0	0	33	33	0	0	0	0	0	0	0	0	0	0	17	0	0	33	17												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
0	0	0	0	0	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												

  

Serum	160	Test	Class I-Solid Phase Full Panel (Multi-Antigen)																	#Labs with Results:	7	Ttl Cons	0										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	43	14	43	43	43	29	0	29	14	29	29	14	0	43	0	14	14	14	0														
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	29	14	29	0	14	14	14	14	14	0	0	0	43	29	14	14	29	29	0	14	29	14	29										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
29	29	29	14	29	29	29	0	29	14	0	14	0	14	14	14	14	0	14	0	14	14												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
14	0	0	0	14	0	14	0	0	0	0	14	0	0	14	0	0	14																

  

Serum	160	Test	Class I-Solid Phase Single Antigen																	#Labs with Results:	21	Ttl Cons	40										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	100	0	100	100	100	100	100	100	100	95	100	0	100	100	100	100	90	0	0	90													
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	76	0	95	0	100	0	100	0	5	0	10	19	100	100	100	100	43	10	19	0	0	0	86										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
86	100	0	0	0	81	86	0	0	0	0	0	0	0	0	100	0	100	0	0	86	100												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
100	0	14	0	14	10	100	100	95	95	0	100	0	100	10	100	0	67																



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Serum	161	Test	Class I-CDC/AHG																	#Labs with Results:	6	Ttl Cons	0										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	0	0	17	17	33	17	33	0	0	17	17	17	33	17	17	0	17	17	17	17													
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	33	0	17	33	33	0	17	17	17	0	17	50	0	17	17	0	17	17	17	17	17	17	33										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
33	17	0	17	17	0	0	0	0	17	17	0	0	0	0	17	33	17	17	0	17	0												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
17	17	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
Serum	161	Test	Class I-Solid Phase Full Panel (Multi-Antigen)																	#Labs with Results:	7	Ttl Cons	0										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	29	0	14	14	43	43	43	29	0	0	14	43	14	14	14	0	14	14	14	0													
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	43	29	0	14	29	0	14	14	14	0	14	14	0	14	0	14	29	0	0	14	14	0	14										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
29	14	14	0	29	29	29	0	14	29	14	29	0	14	0	14	0	0	14	0	29	14												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
0	0	0	0	14	14	0	0	0	0	0	14	0	14	14	0	0	14																
Serum	161	Test	Class I-Solid Phase Single Antigen																	#Labs with Results:	21	Ttl Cons	49										
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74													
	100	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100													
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54										
	100	100	0	100	100	0	100	95	95	0	100	100	10	0	5	95	95	0	0	24	10	0	100										
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201											
100	100	67	24	90	14	100	5	0	100	95	95	0	5	0	100	14	5	29	33	95	100												
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18																
5	95	0	95	95	90	95	0	0	0	0	0	0	0	95	0	95	95																



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Serum	162	Test	Class I-CDC/AHG																	#Labs with Results:	6	Ttl Cons	1											
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	NEGATIVE CONSENSUS												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52		B53	B54										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0									
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81		B8201											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Serum	162	Test	Class I-Solid Phase Full Panel (Multi-Antigen)																	#Labs with Results:	3	Ttl Cons	1											
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	NEGATIVE CONSENSUS												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52		B53	B54										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0									
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81		B8201											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Serum	162	Test	Class I-Solid Phase Single Antigen																	#Labs with Results:	8	Ttl Cons	1											
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	NEGATIVE CONSENSUS												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52		B53	B54										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0									
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81		B8201											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											



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Serum	163	Test	Class I-CDC/AHG																	#Labs with Results:	6	Ttl Cons	1		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74	<input checked="" type="checkbox"/>	NEGATIVE CONSENSUS			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Serum	163	Test	Class I-Solid Phase Full Panel (Multi-Antigen)																	#Labs with Results:	7	Ttl Cons	5		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74					
	0	71	0	0	14	14	0	0	14	14	0	0	43	29	14	0	14	29	14	14					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	0	86	0	86	0	86	57	0	0	0	29	29	0	14	57	14	0	43	43	86	71	86	0		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201			
0	29	29	29	43	0	0	71	57	43	71	0	0	71	71	14	71	14	14	71	14	14				
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
0	0	0	0	14	0	0	14	0	0	0	0	0	14	14	14	14	14								
Serum	163	Test	Class I-Solid Phase Single Antigen																	#Labs with Results:	21	Ttl Cons	19		
% Match:	A1	A2	A3	A11	A23	A24	A25	A26	A29	A30	A31	A32	A33	A34	A36	A43	A66	A68	A69	A74					
	5	86	5	5	5	19	5	0	5	0	5	0	67	0	0	5	0	48	48	0					
	B7	B8	B13	B18	B27	B35	B37	B38	B39	B40	B41	B42	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54		
	5	100	0	100	5	100	100	0	0	0	38	57	19	24	81	5	0	81	81	100	81	100	29		
	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B67	B70	B71	B72	B73	B75	B76	B77	B78	B81	B8201			
14	76	76	67	95	10	10	86	86	62	81	0	5	86	81	5	95	29	76	100	0	38				
Cw1	Cw2	Cw3	Cw4	Cw5	Cw6	Cw7	Cw8	Cw9	Cw10	Cw11	Cw12	Cw13	Cw14	Cw15	Cw16	Cw17	Cw18								
5	5	0	5	5	5	5	5	19	14	0	0	0	5	5	5	5	5								

Comment: