

UK NEQAS for H&I Scheme 11 - HPA Antibody Detection/Specificity Analysis

SAMPLES 11 01-04/2018

DESPATCHED ON 13 March 2018

HPA Antibody Detection results - Not Assessed

SUMMARY OF RESULTS

Total tested	11	11	31	10
Positive	0	11	20	1
Negative	11	0	11	9
NT/Equivocal	0	0	1	1
% Positive	0.0%	100.0%	64.5%	10.0%
% Negative	100.0%	0.0%	35.5%	90.0%
Consensus	Negative	Positive	Not Assessed	Negative

Lab No.	11 01/2018		11 02/2018		11 03/2018		11 04/2018		Comments
	HPA Ab	Method	HPA Ab	Method	HPA Ab	Method	HPA Ab	Method	
2	Negative	ELISA	Positive	ELISA	Negative	ELISA	Negative	ELISA	Sample PLT 01-04/2018 - Negative Sample PLT 02-04/2018 -Anti-HPA-5b + Anti-HLA Class I Sample PLT 03-04/2018 - Anti-GP IIb/IIIa + Anti-GP Ia/IIa Sample PLT 04-04/2018 - Anti - HLA Class I 11 03/2018: No HLA antibodies by Pak-Lx (limited HLA antibody detection). Not tested by Luminex LabScreen HLA antibody assay.
20	Negative	MAIPA	Positive	MAIPA	Negative	MAIPA	Negative	MAIPA	
26	Negative	PIFT-FC, LUMINEX, MAIPA	Positive	PIFT-FC, LUMINEX, MAIPA	Positive	PIFT-FC, LUMINEX, MAIPA	Negative	PIFT-FC, LUMINEX, MAIPA	
75	Negative	LUMINEX, MAIPA	Positive	LUMINEX, MAIPA	Positive	LUMINEX, MAIPA	Negative	LUMINEX, MAIPA	
120	Negative	LUMINEX, MAIPA	Positive	LUMINEX, MAIPA	Positive	LUMINEX	Negative	LUMINEX, MAIPA	
128	Negative	LUMINEX	Positive	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	
158	Negative	LUMINEX	Positive	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	
163	Negative	MAIPA	Positive	MAIPA	NT	NT	NT	NT	
164	Negative	ELISA	Positive	ELISA	Negative	ELISA	Negative	ELISA	
180	Negative	ELISA	Positive	ELISA	Positive	ELISA	Negative	ELISA	
199	Negative	PIFT-FC, LUMINEX	Positive	PIFT-FC, LUMINEX	Positive	PIFT-FC, LUMINEX	Positive	PIFT-FC, LUMINEX	
204	Negative	ELISA	Positive	ELISA	Negative	ELISA	Negative	ELISA	

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HLA Class I Antibody Detection results - Not Assessed

Total tested	8	8	7	8
Positive	0	8	0	8
Negative	8	0	7	0
NT/Equivocal	3	3	4	3
% Positive	0.0%	100.0%	0.0%	100.0%
% Negative	100.0%	0.0%	100.0%	0.0%
Consensus	Negative	Positive	Negative	Positive

Lab No.	11 01/2018		11 02/2018		11 03/2018		11 04/2018		Comments
	HLA CI Ab	Method	HLA CI Ab	Method	HLA CI Ab	Method	HLA CI Ab	Method	
2	Negative	ELISA	Positive	ELISA	Negative	ELISA	Negative	ELISA	<p style="text-align: center;">Sample PLT 01-04/2018 - Negative Sample PLT 02-04/2018 -Anti-HPA-5b + Anti-HLA Class I Sample PLT 03-04/2018 - Anti-GP IIb/IIIa + Anti-GP Ia/IIa Sample PLT 04-04/2018 - Anti - HLA Class I 11 03/2018: No HLA antibodies by Pak-Lx (limited HLA antibody detection). Not tested by Luminex LabScreen HLA antibody assay.</p>
20	NT	NT	NT	NT	NT	NT	NT	NT	
26	NT	NT	NT	NT	NT	NT	NT	NT	
75	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
120	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
128	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
158	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
163	NT	NT	NT	NT	NT	NT	NT	NT	
164	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
180	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
199	Negative	LUMINEX	Positive	LUMINEX	NT	NT	Positive	LUMINEX	
204	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
206	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
227	NT	NT	NT	NT	NT	NT	NT	NT	
267	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
276	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
297	NT	NT	NT	NT	NT	NT	NT	NT	
379	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	NT	NT	
380	NT	NT	NT	NT	NT	NT	NT	NT	
381	NT	NT	Positive	ELISA	Negative	ELISA	Positive	ELISA	
383	Negative	ELISA, LUMINEX	Positive	ELISA, LUMINEX	Negative	ELISA, LUMINEX	Positive	ELISA, LUMINEX	
384	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
385	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
386	NT	NT	NT	NT	NT	NT	NT	NT	
387	Negative	ELISA	Negative	ELISA	Negative	ELISA	Negative	ELISA	
388	NT	NT	NT	NT	NT	NT	NT	NT	
389	Negative	ELISA	Positive	ELISA	Positive	ELISA	Positive	ELISA	
390	Negative	ELISA	Positive	ELISA	Negative	ELISA	Positive	ELISA	
391	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
394	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
395	NT	NT	NT	NT	NT	NT	NT	NT	
397	Negative	LUMINEX	Positive	LUMINEX	Negative	LUMINEX	Positive	LUMINEX	
400	NT	NT	NT	NT	NT	NT	NT	NT	

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Issue 1

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Effective Date 18/04/18

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SAMPLES 11 01-04/2018

DESPATCHED ON 13 March 2018

HPA Antibody Identification results - Assesse

Lab No.	11 01/2018		11 02/2018				11 03/2018				11 04/2018		Comments
	Negative Negative 100.0%	HPA-5b Present 96.9%	HPA-3b Absent 3.1%	HPA-5a Absent 3.1%	HPA-15a Absent 3.1%	GP IIb/IIIa Absent 3.1%	HPA-1a Not Assessed 54.8%	GP Ia/IIa Not Assessed 16.1%	GP IIb/IIIa Not Assessed 6.5%	GP IIa/IIIb Absent 3.2%	Negative Negative 96.7%		
2	Negative	Anti-HPA-5b	HPA-3b	HPA-5a	HPA-15a	GP IIb/IIIa	HPA-1a	GP Ia/IIa	GP IIb/IIIa	GP IIa/IIIb	Negative		
20	Negative	HPA-5b	?HPA-3b				Negative				Negative	HPA-2 and -15 antibody testing/control failures observed for some samples - insufficient material to repeat results based on interpretation of results available. HPA-3b not clear, if patient sample extended testing/repeat sampling would be undertaken to confirm.	
26	Negative	HPA-5b					Negative				Negative		
75	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
120	Negative	Anti HPA-5b allo-antibodies					Anti-HPA-1a allo-antibodies				Negative		
128	Negative	HPA-5b					HPA-1a				Negative	Anti HPA-15 antibody screening has been performed with K562 cell lines expressing CD109	
158	Negative	Anti-HPA-5b					Anti-HPA-1A	Weak Anti-GP Ia/IIa			Negative		
163	Negative	HPA-5b					NT	NT	NT	NT	NT	11 03+04/2018 Not Tested	
164	Negative	Anti GPIa/IIa (HPA-5b)					Negative				Negative		
180	Negative	Anti-HPA-5b + Anti-HLA Class I						Anti-GP Ia/IIa		Anti-GP IIa/IIIb	Negative	We have used the Kit PAKPLUS from IMMUCOR. Anti-HLA Class I detected 11 04/2018. 11 04/2018: HLA class I antibodies by Pak-Lx. The PIFT assay was positive, but the PIFT can't differentiate between HLA or HPA (or other) platelet antibodies. Therefore we couldn't report a specificity for the "platelet specific" antibodies. While the PakLx assay was negative for HPA antibodies in the panel, we know PakLx does miss some HPA antibodies, so we can't say for sure that the sample was HPA antibody negative. Therefore, we had to report the sample was positive for "platelet specific" antibodies, without specifying what they are, they could be HLA and HPA or just HLA, our current test system is not able to differentiate this.	
199	Negative	HPA-5b and HLA class I antibodies by Pak-Lx					HPA-1a	pan reactive GP Ia/IIa antibodies by Pak-Lx.			Positive (see comments)		
204	Negative	Anti HPA-5b					Negative				Negative	Sample 1103/2018: non-specific reactions with GP Ia-1ia obtained by LUMINEX method.	
206	Negative	anti-HPA-5b allo-antibodies					Anti-HPA-1a allo-antibodies				Negative		
227	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
267	Negative	GP Ia/IIa (HPA-5b/5b)				GP IIb/IIIa		GP Ia/IIa (HPA-5b/5b)	GP IIb/IIIa		Negative		
276	Negative			Anti-HPA-5a			Anti-HPA-1a				Negative		
297	Negative	HPA-5b					Negative				Negative		
379	Negative	Anti HPA-5b alloantibodies detected					Anti HPA-1a alloantibodies detected				NT		11 04/2018 Not tested. Sample leaked during transport. Insufficient volume left for testing.
380	Negative	HPA-5b antibodies detected					HPA-1a	GP Ia/IIa antibodies detected (HPA-4b antibodies cannot be excluded)			Negative		
381	Negative	Anti-HPA-5b					Negative				Negative		
383	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
384	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
385	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
386	Negative	Anti-HPA-5b					Negative				Negative		
387	Negative	Anti-HPA-5b					Negative				Negative		
388	Negative	Anti-HPA-5b					Negative				Negative		
389	Negative	Anti HPA-5b					Anti HPA-1a				Negative		
390	Negative	Anti-HPA-5b					Negative				Negative		
391	Negative	Anti-HPA-5b							Anti-GP IIb/IIIa		Negative		
394	Negative	HPA-5b					HPA-1a				Negative	03/2018 weak HPA-1a by Pak-Lx but negative by MAIPA	
395	Negative	Anti-HPA-5b (anti-Bra)					Negative				Negative		
397	Negative	Anti-HPA-5b					Anti-HPA-1a				Negative		
400												No results submitted	
Number reported	32	31	1	1	1	1	17	5	2	1	29		
Total participants	32	32	32	32	32	32	31	31	31	31	30		

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Additional Information

Lab No.	Methods used to test these samples:				ELISA	Luminex	MAIPA	Other	Does this apply to all samples? If No, further details	Date samples received	Date samples tested	Comments
	PIFT-M Untreated/Treated Platelets	PIFT-FC Untreated/Treated Platelets	If using PIFT conjugate details:									
2		Untreated			ELISA				Yes	14/03/2018	20/03/2018	
20						MAIPA			Yes	14/03/2018	27/03/2018 and 04/04/2018	
26		PIFT-FC	Untreated	IgG, IgM		LUMINEX	MAIPA		Yes	14/03/2018	19/03/2018	
75						LUMINEX	MAIPA		Yes	15/03/2018	22/03/2018	
120						LUMINEX	MAIPA		Yes	14/03/2018	15/03/2018	
128						LUMINEX			Yes	15/03/2018	21/03/2018	
158						LUMINEX			Yes	15/03/2018	21/03/2018	
163							MAIPA		Yes	14/03/2018	21/03/2018	
164					ELISA				Yes	14/03/2018	16/03/2018	
180					ELISA				Yes	16/03/2018	19/03/2018	
199		Untreated		IgG		LUMINEX			Yes	16/03/2018	19/03/2018	
204					ELISA				Yes	15/03/2018	05/04/2018	
206							MAIPA		Yes	14/03/2018	20/03/2018	
227							MAIPA		Yes	14/03/2018	23/03/2018	
267					ELISA				Yes	14/03/2018	09/04/2018	
276						LUMINEX			Yes	14/03/2018	15/03/2018	
297				IgG	ELISA				Yes	14/03/2018	15/03/2018 and 27/03/2018	
379		Untreated		IgG, IgM		LUMINEX	MAIPA		Yes	20/03/2018	21/03/2018	Sample 11 04 2018 leaked during transport. Insufficient volume left for testing.
380						LUMINEX			Yes	20/03/2018	22/03/2018	
381							MAIPA		Yes	14/03/2018	16/03/2018	
383					ELISA	LUMINEX	MAIPA		Yes	15/03/2018	16/03/2018	
384							MAIPA		Yes	15/03/2018	27/03/2018	
385						LUMINEX			Yes	15/03/2018	21/03/2018	
386							MAIPA		Yes			
387							MAIPA		Yes			
388					ELISA			SPRCA	Yes	20/03/2018	29/03/2018	
389					ELISA		MAIPA		Yes			
390					ELISA		MAIPA		Yes	14/03/2018	21/03/2018	
391						LUMINEX			Yes			
394						LUMINEX	MAIPA		Yes	21/03/2018	23/03/2018	
395					ELISA		MAIPA		Yes	14/03/2018	26/03/2018	
397					ELISA		MAIPA		Yes	14/03/2018	22/03/2018	Limited sample amount, not tested by PIFT IgG/IgM
400												