



Single Antigen Bead (SAB) Assay HLA Class I & II (IgG)

PATIENT'S NAME
AGE/SEX
MAX-ID
CONSULTANT

LAB. REF. No.
SAMPLE REC. DATE
REPORTING DATE
WARD/OPD

Clinical History:- CKD-V, HTN, post-transplant 2016

Test Details:- This is done to detect IgG antibodies to HLA Class I & II glycoproteins. LIFECODES LSA™ Class I & II are composed of different Luminex Beads to which purified recombinant Class I & II glycoproteins are conjugated.

HLA molecules can become the target of antibody response in people during pregnancy, transfusion of blood products or organ transplant rejection. Generally, alloimmunization lead to the production of HLA antibodies in approximately 33% of exposed individuals. The presence or absence of these HLA-specific antibodies has a role in determining the survival of transplant allograft.

An aliquot of the beads is allowed to incubate with a small volume of test serum sample. The sensitized beads are then washed to remove unbound antibody. An anti-Human IgG antibody conjugated to phycoerythrin is then added. After another incubation, the test sample is diluted and analyzed on the Luminex instrument. The single intensity from each bead is compared to the signal intensity of a negative control sera and negative control bead included in the bead preparation to determine if the bead is positive or negative for bound alloantibody

(Reference No. H-435598788 – Dated 08/04/2023 – HISTOCOMPATIBILITY REPORT).

Name	A*	B*	C*	DRB1*	DQB1*	DPB1*
Jotikamala(Donor)	24:02:01 68:01:02	35:03:01 40:06:01	12:02:02 12:03:01	15:01:01 15:02:02	06:01:01 06:01:01	02:01:02 13:01:01

Interpretation:- Anti HLA Class I & Class II antibodies identified:

HLA Class – I				HLA Class – II					
A	B	Cw	MFI	DRB	DQA	DQB	DPA	DPB	MFI
-	B*27:08	-	19565	-	-		DPA1*02:01	DPB1*04:01	21847
-	B*53:01	-	17678	-	-		DPA1*02:02	DPB1*28:01	21470
-	B*40:01	-	17433	-	-		DPA1*02:01	DPB1*11:01	21255
-	B*40:02	-	16703	-	-		DPA1*01:03	DPB1*01:01	21083
-	B*35:08	-	16697	-	-		DPA1*02:01	DPB1*13:01	21065
-	B*07:02	-	16631	-	-		DPA1*02:02	DPB1*01:01	21050
-	B*15:18	-	16621	-	-		DPA1*02:01	DPB1*09:01	21031
-	B*35:01	-	16544	-	-		DPA1*02:01	DPB1*19:01	21012
-	B*07:03	-	16059		DQA1*01:02	DQB1*05:01	-	-	20994
-	B*27:05	-	15650	-	-		DPA1*01:03	DPB1*06:01	20955
-	B*50:01	-	15504	-	-		DPA1*02:02	DPB1*04:01	20950
-	B*81:01	-	14531	-	-		DPA1*02:01	DPB1*17:01	20920
-	B*15:02	-	14028	-	-		DPA1*02:01	DPB1*15:01	20886
A*24:02	-	-	13640	-	-		DPA1*02:02	DPB1*05:01	20806
-	B*37:01	-	13194	-	-		DPA1*02:01	DPB1*01:01	20768
-	B*13:02	-	13152	-	-		DPA1*03:01	DPB1*01:01	20671
-	B*47:01	-	13119	-	-		DPA1*04:01	DPB1*13:01	20574
-	B*15:13	-	12940	-	-		DPA1*01:03	DPB1*03:01	20459
-	B*78:01	-	12934	-	DQA1*01:04	DQB1*06:01	-	-	20398
-	B*49:01	-	12828	-	-	-	DPA1*02:01	DPB1*05:01	20324
-	B*15:01	-	12741	-	DQA1*03:01	DQB1*04:02	-	-	20316
-	B*15:12	-	12505	-	DQA1*01:01	DQB1*05:01	-	-	20314
-	B*39:01	-	11799	-	-	-	DPA1*04:01	DPB1*04:01	20296
-	B*41:01	-	11789	-	-	-	DPA1*03:01	DPB1*05:01	20164
A*24:03	-	-	11776	-	-	-	DPA1*02:01	DPB1*14:01	20110
-	B*18:01	-	11616	-	DQA1*01:04	DQB1*05:03	-	-	20091
-	B*15:03	-	11528	-	DQA1*03:02	DQB1*03:01	-	-	20075
-	B*51:01	-	11380	-	DQA1*01:02	DQB1*05:02	-	-	20026
-	B*27:03	-	11175	-	-	-	DPA1*01:03	DPB1*18:01	19990
A*23:01	-	-	11155	-	DQA1*03:01	DQB1*03:02	-	-	19690
-	B*38:01	-	10086	-	DQA1*04:01	DQB1*04:02	-	-	19578

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-	B*08:01	-	9973	-	DQA1*03:01	DQB1*03:01	-	-	19555
-	B*52:01	-	9659	-	DQA1*01:02	DQB1*06:04	-	-	19491
-	B*45:01	-	9195	DRB1*04:05	-	-	-	-	19287
-	B*67:01	-	7788	-	DQA1*03:02	DQB1*02:02	-	-	19138
-	B*55:01	-	6689	-	DQA1*03:02	DQB1*03:02	-	-	18871
-	B*54:01	-	6053	-	DQA1*06:01	DQB1*04:02	-	-	18826
-	B*56:01	-	5945	-	DQA1*03:02	DQB1*03:03	-	-	18790
-	B*14:01	-	5798	DRB1*04:01	-	-	-	-	18568
-	B*42:01	-	5632	DRB5*01:01	-	-	-	-	18536
-	B*59:01	-	5577	-	DQA1*04:01	DQB1*04:01	-	-	18201
-	B*48:01	-	5201	-	DQA1*02:01	DQB1*04:01	-	-	18182
-	B*44:03	-	5137	DRB1*04:04	-	-	-	-	18156
-	B*44:02	-	5036	DRB1*04:02	-	-	-	-	18044
A*03:01	-	-	4013	-	DQA1*05:01	DQB1*04:01	-	-	17910
-	B*14:02	-	3083	DRB5*02:02	-	-	-	-	17896
-	B*82:02	-	2602	DRB1*15:01	-	-	-	-	17747
-	B*73:01	-	2214	-	DQA1*01:03	DQB1*06:01	-	-	17454
A*29:02	-	-	1744	DRB1*04:03	-	-	-	-	17375
A*66:02	-	-	1696	-	DQA1*02:01	DQB1*06:01	-	-	17306
A*11:01	-	-	1228	-	DQA1*01:03	DQB1*06:03	-	-	16760
-	-	-	-	DRB1*15:02	-	-	-	-	15864
-	-	-	-	DRB1*15:03	-	-	-	-	14170
-	-	-	-	DRB1*01:01	-	-	-	-	12043
-	-	-	-	DRB1*16:01	-	-	-	-	11990
-	-	-	-	-	DQA1*01:02	DQB1*06:02	-	-	11158
-	-	-	-	DRB1*01:03	-	-	-	-	10671
-	-	-	-	DRB1*16:02	-	-	-	-	10043
-	-	-	-	DRB1*01:02	-	-	-	-	9607
-	-	-	-	DRB1*11:04	-	-	-	-	5831
-	-	-	-	DRB1*09:01	-	-	-	-	5169
-	-	-	-	DRB1*11:01	-	-	-	-	4936
-	-	-	-	DRB1*12:01	-	-	-	-	4152
-	-	-	-	DRB1*13:05	-	-	-	-	4148
-	-	-	-	DRB1*11:03	-	-	-	-	3967
-	-	-	-	DRB4*01:01	-	-	-	-	3695
-	-	-	-	DRB1*12:02	-	-	-	-	3615
-	-	-	-	DRB1*13:03	-	-	-	-	3611
-	-	-	-	DRB1*10:01	-	-	-	-	3531
-	-	-	-	DRB1*13:01	-	-	-	-	2712
-	-	-	-	DRB1*08:01	-	-	-	-	2182
-	-	-	-	-	DQA1*04:01	DQB1*03:03	-	-	2014
-	-	-	-	-	DQA1*06:01	DQB1*03:01	-	-	1914
-	-	-	-	DRB1*08:02	-	-	-	-	1805
-	-	-	-	-	DQA1*06:01	DQB1*03:03	-	-	1719

Comment: - Donor Specific Antibodies for Class I are identified A*24:02(MFI-13640) against donor Jotikamala(Donor).

Donor Specific Antibodies for Class II are identified DRB1*15:01(MFI-17747), DRB1*15:02(MFI-15864), DQB1*06:01(MFI-20398, 17454 & 17306) and DPB1*13:01(MFI-21065, 20574) against donor Jotikamala(Donor).

Performed By:

Reported by:

Mr. Ajay Bisht
Scientific Officer

Dr. Anil Handoo
Sr. Consultant, Haematology &
Sr. Director Laboratory Services
Date: 04th May, 2023

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Class I Single Antigen Results
Batch ID: 04052023 I LSA

Patient Name: Patient DOB: Draw Date: Donor Number: Expiration Date:
Sample ID: Lot ID: Donor Center #: Accession #:
Patient HLA Type: Report By:
Method Type: Standard Calculation

Positive CON MFI: 16235
Negative CON MFI: 455

Analysis Mode:
Manual

% PRA:
57

Antigen ID	Cut-off	Raw Value	MFI/LRA	Assignment	BG Adjusted	AD-MFI	AD-BG Adjusted	A	B	C	Bw	A Serology	B Serology	C Serology	RAD	Epitopes
150	3.36	19565	88.93	Positive	19458	13219	13147		B*27:08		Bw6		B2708		1.4800	66I
170	3.63	17678	80.35	Positive	17521	15032	14899		B*38:01		Bw4		B53		1.1760	66I
156	3.73	17433	79.24	Positive	17266	14014	13879		B*40:01		Bw6		B60(40)		1.2440	66I
157	3.64	16703	75.92	Positive	16579	12654	12560		B*40:02		Bw6		B61(40)		1.3200	66I
152	4.07	16697	75.90	Positive	16499	15678	15492		B*35:18		Bw6		B35		1.0650	66I
134	3.93	16631	75.60	Positive	16449	12599	12461		B*07:02		Bw6		B7		1.3200	66I
146	3.48	16621	75.55	Positive	16406	11949	11852		B*15:18		Bw6		B71(70)		1.3910	66I
151	3.78	16544	75.20	Positive	16391	13718	13591		B*16:01		Bw6		B35		1.2060	66I
135	3.62	16059	73.00	Positive	15899	12605	12480		B*07:03		Bw6		B703		1.2740	66I
149	3.55	15650	71.13	Positive	15517	11687	11588		B*27:05		Bw4		B27		1.3390	66I
167	3.65	15504	70.47	Positive	15401	11657	11580		B*50:01		Bw6		B50(21)		1.3300	66I, 95W
180	3.56	14531	66.05	Positive	14386	12273	12150		B*81:01		Bw6		B81		1.1840	66I
141	3.73	14028	63.76	Positive	13916	11470	11378		B*15:02		Bw6		B75(15)		1.2230	66I
113	3.97	13640	66.54	Positive	13467	10404	10272	A*24:02			Bw4	A24(9)			1.3110	144KR, 166DG
153	3.92	13194	59.97	Positive	13050	10048	9939		B*37:01		Bw4		B37		1.3130	66I
137	3.94	13152	59.78	Positive	12979	11806	11651		B*13:02		Bw4		B13		1.1140	66I, 95W
164	3.62	13119	59.63	Positive	12974	9438	9333		B*47:01		Bw4		B47		1.3900	66I
144	3.72	12940	58.82	Positive	12778	10369	10239		B*15:13		Bw4		B77(15)		1.2480	66I
179	3.88	12934	58.79	Positive	12781	11548	11412		B*76:01		Bw6		B78		1.1200	66I, 95W
166	3.56	12828	58.31	Positive	12728	9509	9435		B*49:01		Bw4		B49(21)		1.3490	66I, 95W
140	3.53	12741	57.91	Positive	12611	9861	9761		B*15:01		Bw6		B62(15)		1.2920	66I
143	3.67	12505	56.84	Positive	12405	8751	8681		B*15:12		Bw6		B76(15)		1.4290	66I, 166DG
155	3.54	11799	53.63	Positive	11676	8612	8523		B*39:01		Bw6		B3901		1.3700	66I
158	3.90	11789	53.58	Positive	11617	10323	10172		B*41:01		Bw6		B41		1.1420	66I, 95W
114	3.95	11776	57.44	Positive	11658	8304	8221	A*24:03			Bw4	A2403			1.4180	144KR
147	3.68	11616	52.80	Positive	11500	8721	8633		B*18:01		Bw6		B18		1.3320	66I
142	3.66	11528	52.40	Positive	11395	9171	9065		B*15:03		Bw6		B72(70)		1.2570	66I
168	3.95	11380	51.73	Positive	11227	9312	9187		B*31:01		Bw4		B51(5)		1.2220	66I, 95W
148	3.49	11175	50.79	Positive	11093	8103	8044		B*27:03		Bw4		B27		1.3790	66I
112	3.69	11155	54.41	Positive	11023	9047	8940	A*23:01			Bw4	A23(9)			1.2330	166DG
154	3.66	10086	45.84	Positive	9959	7482	7388		B*38:01		Bw4		B38(16)		1.3480	66I
136	3.67	9973	45.33	Positive	9869	7206	7131		B*08:01		Bw6		B8		1.3040	66I
169	3.91	9659	43.90	Positive	9526	7976	7866		B*52:01		Bw4		B52(5)		1.2110	66I, 95W
162	3.78	9195	41.79	Positive	9056	7092	7773		B*45:01		Bw6		B45(12)		1.1650	66I, 95W
177	3.40	7788	35.40	Positive	7699	5508	5445		B*67:01		Bw6		B67		1.4140	66I
172	4.05	6689	30.40	Positive	6559	6103	5994		B*55:01		Bw6		B55(22)		1.0960	66I, 95W
171	4.21	6053	27.51	Positive	5871	5478	5313		B*54:01		Bw6		B54(22)		1.1050	66I, 95W
173	3.75	5945	27.02	Positive	5821	5072	4966		B*56:01		Bw6		B56(22)		1.1720	66I, 95W
138	3.77	5798	26.35	Positive	5639	4756	4626		B*14:01		Bw6		B64(14)		1.2190	66I
159	3.98	5632	25.60	Positive	5502	4902	4789		B*42:01		Bw6		B42		1.1490	66I
176	3.67	5577	25.35	Positive	5447	4447	4344		B*59:01		Bw4		B59		1.2540	66I, 95W
165	4.08	5201	23.64	Positive	5005	6199	5965		B*48:01		Bw6		B48		0.8390	66I
161	4.07	5137	23.35	Positive	4994	3942	3833		B*44:03		Bw4		B44(12)		1.3030	66I
160	3.81	5036	22.89	Positive	4902	4207	4095		B*44:02		Bw4		B44(12)		1.1970	66I
109	3.56	4013	19.58	Positive	3898	3311	3216	A*02:01				A3			1.2120	144KR
139	4.37	3083	14.01	Positive	2891	2916	2735		B*14:02		Bw6		B65(14)		1.0570	66I
181	3.76	2602	11.83	Positive	2485	2222	2122		B*82:01		Bw6				1.1710	66I
178	3.87	2214	10.06	Positive	2070	1879	1757		B*22:01				B73		1.1780	66I, 95W
118	3.56	1744	8.51	Positive	1633	1468	1375	A*29:02				A29(19)			1.1880	
128	3.61	1696	8.27	Positive	1549	1350	1233	A*66:02				A66(10)			1.2560	
110	3.35	1228	5.99	Positive	1110	902	816	A*11:01				A11			1.3610	144KR
111	3.77	1029	5.02	Negative	888	906	781	A*11:02				A11			1.1360	144KR
103	3.61	972	4.74	Negative	861	766	678	A*01:01				A1			1.2690	144KR, 166DG

Sample ID: KIRATH KAUSHIK I23 LSA-24

Patient Name: KIRATH KAUSHIK I23 LSA-24

Draw Date:

Report Date: 04.05.2023

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