

Class I—Distribution

HLA-A			HLA-B			HLA-Cw		
Antigen distribution	DynaChip® Ab P21	PRA % P21	Antigen distribution	DynaChip® Ab P21	PRA % P21	Antigen distribution	DynaChip® Ab P21	PRA % P21
A1	23	20.9%	B13	6	5.5%	Cw1	12	10.9%
A11	14	12.7%	B18	10	9.1%	Cw12	11	10.0%
A2	33	30.0%	B27	5	4.5%	Cw14	4	3.6%
A23	6	5.5%	B35	7	6.4%	Cw15	6	5.5%
A24	18	16.4%	B37	6	5.5%	Cw16	13	11.8%
A25	5	4.5%	B38	6	5.5%	Cw17	6	5.5%
A26	8	7.3%	B39	7	6.4%	Cw18	7	6.4%
A29	8	7.3%	B41	2	1.8%	Cw2	19	17.3%
A3	16	14.5%	B42	5	4.5%	Cw3	23	20.9%
A30	15	13.6%	B44	11	10.0%	Cw4	15	13.6%
A31	10	9.1%	B45	6	5.5%	Cw5	8	7.3%
A32	8	7.3%	B46	5	4.5%	Cw6	28	25.5%
A33	9	8.2%	B47	2	1.8%	Cw7	49	44.5%
A34	4	3.6%	B48	2	1.8%	Cw8	15	13.6%
A36	3	2.7%	B49	4	3.6%	Total class I spots = 110		
A6601	3	2.7%	B50	3	2.7%			
A6602	3	2.7%	B51	7	6.4%			
A68	10	9.1%	B52	6	5.5%			
A69	3	2.7%	B53	7	6.4%			
A74	8	7.3%	B54	2	1.8%			
A80	4	3.6%	B55	4	3.6%			
Total class I spots = 110			B56	3	2.7%			
			B57	10	9.1%			
			B58	7	6.4%			
			B60	7	6.4%			
			B61	5	4.5%			
			B62	7	6.4%			
			B63	4	3.6%			
			B64	4	3.6%			
			B65	3	2.7%			
			B67	1	0.9%			
			B7	16	14.5%			
			B70	1	0.9%			
			B71	3	2.7%			
			B72	8	7.3%			
			B73	1	0.9%			
			B75	3	2.7%			
			B76	1	0.9%			
			B77	1	0.9%			
			B78	2	1.8%			
			B8	11	10.0%			
			B81	6	5.5%			
			B82	2	1.8%			
			Bw4	66	60.0%			
			Bw6	93	84.5%			
			Total class I spots = 110					

Class II—Distribution

HLA-DRB1			HLA-DRB3/4/5			HLA-DQB1		
Antigen distribution	DynaChip® Ab P21	PRA % P21	Antigen distribution	DynaChip® Ab P21	PRA % P21	Antigen distribution	DynaChip® Ab P21	PRA % P21
DR1	6	13.0%	DR51	9	19.6%	DQ2	14	30.4%
DR103	2	4.3%	DR52	27	58.7%	DQ4	8	17.4%
DR4	6	13.0%	DR53	14	30.4%	DQ5	23	50.0%
DR7	6	13.0%	Total class II spots = 46			DQ6	9	19.6%
DR8	8	17.4%				DQ7	18	39.1%
DR9	6	13.0%				DQ8	5	10.9%
DR10	6	13.0%				DQ9	6	13.0%
DR11	7	15.2%				Total class II spots = 46		
DR12	6	13.0%						
DR13	5	10.9%						
DR14	8	17.4%						
DR15	6	13.0%						
DR16	3	6.5%						
DR17	5	10.9%						
DR18	4	8.7%						
Total class II spots = 46								

DynaChip® HLA antibody analysis

Antigen panel

The DynaChip® array chip offers broad coverage of HLA class I and II antibodies through the use of purified, single-donor antigens. The antigen panel is updated as more antigens become available, and the array chip undergoes continuous development.

For additional product information, visit www.invitrogen.com/transplantdiagnostics.

Class I—Single-donor antigens

Donor ID	HLA-A		HLA-B		HLA-Bw4/6		HLA-Cw	
03	A*0201	A*3201	B*3901	B*4001	Bw*4	Bw*6	Cw*0304	Cw*1203
05	A*2301	–	B*0702	B*8101	–	Bw*6	Cw*0702	Cw*0804
08	A*0101	A*3101	B*1801	B*8101	–	Bw*6	Cw*0501	Cw*1801
09	A*3001	A*3301	B*5201	B*5801	Bw*4	–	Cw*0401	Cw*1601
12	A*7401	A*8001	B*4201	B*4403	Bw*4	Bw*6	Cw*0401	Cw*1701
14	A*0201	A*3002	B*1801	B*4002	–	Bw*6	Cw*0202	Cw*0501
15	A*0301	A*2402	B*3701	B*5101	Bw*4	–	Cw*0602	Cw*1402
17	A*0201	A*2501	B*4403	B*4701	Bw*4	–	Cw*0602	Cw*1601
19	A*0301	A*3301	B*1517	B*4201	Bw*4	Bw*6	Cw*0501	Cw*1701
24	A*2402	A*3101	B*2705	B*3801	Bw*4	–	Cw*0202	Cw*1203
25	A*2501	A*3303	B*5501	B*5801	Bw*4	Bw*6	Cw*0303	Cw*0607
26	A*0101	A*3002	B*4901	B*1503	Bw*4	Bw*6	Cw*0202	Cw*0701
27	A*0201	A*3002	B*0702	B*5101	Bw*4	Bw*6	Cw*0702	Cw*1601
30	A*6601	A*7401	B*1503	B*4501	–	Bw*6	Cw*0202	Cw*1601
31	A*0101	A*1101	B*0801	B*1502	–	Bw*6	Cw*0701	Cw*0801
33	A*2501	A*3201	B*1801	B*3906	–	Bw*6	Cw*1203	Cw*1502
35	A*0101	A*0201	B*1510	B*4501	–	Bw*6	Cw*0304	Cw*1601
36	A*1101	A*2901	B*3505	B*4601	–	Bw*6	Cw*0102	Cw*0401
37	A*2402	A*3001	B*1302	B*4001	Bw*4	Bw*6	Cw*0602	Cw*0702
38	A*0101	A*6801	B*0801	B*3505	–	Bw*6	Cw*0401	Cw*0701
40	A*1101	A*2601	B*3801	B*4402	Bw*4	–	Cw*0304	Cw*1203
41	A*2402	A*3201	B*1401	B*1801	–	Bw*6	Cw*0501	Cw*0802
42	A*0201	A*2902	B*1302	B*1501	Bw*4	Bw*6	Cw*0304	Cw*0602
44	A*6802	A*7401	B*4201	B*5703	Bw*4	Bw*6	Cw*0701	Cw*1701
46	A*2402	A*6801	B*4901	B*8201	Bw*4	Bw*6	Cw*0302	Cw*0701
47	A*0101	A*6601	B*1402	B*4102	–	Bw*6	Cw*0802	Cw*1701
49	A*0201	A*0302	B*3501	–	–	Bw*6	Cw*0303	Cw*1502
51	A*1101	A*3002	B*4801	B*5601	–	Bw*6	Cw*0102	Cw*0801
52	A*1101	–	B*4001	B*5401	–	Bw*6	Cw*0102	Cw*0304
54	A*3002	A*3601	B*1402	B*5802	Bw*4	Bw*6	Cw*0602	Cw*0802
55	A*0308	A*3402	B*5703	B*1510	Bw*4	Bw*6	Cw*0304	Cw*0701
56	A*2501	A*3303	B*4001	B*5301	Bw*4	Bw*6	Cw*0304	Cw*0401
57	A*2402	A*2601	B*0801	B*4402	Bw*4	Bw*6	Cw*0501	Cw*0701
58	A*0201	A*2402	B*0801	B*5001	–	Bw*6	Cw*0602	Cw*0701
59	A*0101	A*2902	B*0702	B*5701	Bw*4	Bw*6	Cw*0602	Cw*0702
60	A*2608	A*3201	B*0702	B*5101	Bw*4	Bw*6	Cw*0702	Cw*1502

Class I—Single-donor antigens, continued

Donor ID	HLA-A		HLA-B		HLA-Bw4/6		HLA-Cw	
61	A*3101	A*3303	B*3501	B*4601	–	Bw*6	Cw*0102	Cw*0401
62	A*2402	A*3002	B*5301	B*5501	Bw*4	Bw*6	Cw*0303	Cw*0401
63	A*2403	A*2601	B*0702	B*1302	Bw*4	Bw*6	Cw*0602	Cw*0702
64	A*0201	A*0205	B*4002	B*4101	–	Bw*6	Cw*0202	Cw*0701
65	A*0201	A*2402	B*2703	B*4402	Bw*4	–	Cw*0102	Cw*0501
66	A*1101	A*3101	B*1501	B*3501	–	Bw*6	Cw*0401	Cw*0801
67	A*0101	A*0301	B*5701	B*5702	Bw*4	–	Cw*0602	Cw*1801
68	A*0301	–	B*0701	B*5101	Bw*4	Bw*6	Cw*0102	Cw*0702
69	A*2402	A*6801	B*3901	B*5501	–	Bw*6	Cw*0303	Cw*0702
70	A*1101	A*1102	B*1502	B*4601	–	Bw*6	Cw*0102	Cw*0802
71	A*0201	A*3001	B*1302	B*4402	Bw*4	–	Cw*0501	Cw*0602
72	A*0202	A*3002	B*1801	B*7801	–	Bw*6	Cw*0202	Cw*1601
73	A*0201	A*2902	B*1302	B*4403	Bw*4	–	Cw*0602	Cw*1601
74	A*0301	A*6602	B*5702	B*5703	Bw*4	–	Cw*1802	–
75	A*0201	–	B*4001	B*6701	–	Bw*6	Cw*0304	Cw*0702
76	A*2301	A*8001	B*4501	B*8101	–	Bw*6	Cw*1601	Cw*1801
77	A*2602	A*3001	B*5101	B*1501	Bw*4	Bw*6	Cw*0303	Cw*1402
78	A*0301	A*2902	B*0702	B*5801	Bw*4	Bw*6	Cw*0702	Cw*0718
80	A*2402	A*3101	B*4002	B*5201	Bw*4	Bw*6	Cw*0303	Cw*0304
81	A*0201	A*3601	B*0702	B*1503	–	Bw*6	Cw*0202	Cw*0702
82	A*2402	A*8001	B*1801	B*4403	Bw*4	Bw*6	Cw*0202	Cw*0706
83	A*3101	A*3201	B*0801	B*3901	–	Bw*6	Cw*0701	Cw*1203
84	A*3601	A*6601	B*4201	B*5802	Bw*4	Bw*6	Cw*0602	Cw*1701
85	A*6802	A*7401	B*0801	B*1503	–	Bw*6	Cw*0202	Cw*0701
86	A*0201	A*2402	B*5101	B*5201	Bw*4	–	Cw*0102	Cw*1202
87	A*0101	A*0301	B*0702	B*4001	–	Bw*6	Cw*0701	Cw*0727
88	A*0201	A*2301	B*1402	B*1516	Bw*4	Bw*6	Cw*0802	Cw*1601
89	A*6801	A*7401	B*1503	B*1510	–	Bw*6	Cw*0202	Cw*0304
90	A*2501	A*3101	B*5201	B*1501	Bw*4	Bw*6	Cw*0102	Cw*1502
91	A*0101	A*0201	B*0801	B*1501	–	Bw*6	Cw*0304	Cw*0701
92	A*0207	–	B*4601	B*4604	–	Bw*6	Cw*0102	Cw*0103
93	A*0101	A*3002	B*1503	B*8101	–	Bw*6	Cw*0202	Cw*1801
94	A*0102	A*2902	B*4403	B*8201	Bw*4	Bw*6	Cw*0302	Cw*0706
95	A*2902	A*3301	B*7801	B*8101	–	Bw*6	Cw*1601	Cw*1801
96	A*0301	A*7401	B*0801	B*4501	–	Bw*6	Cw*0701	Cw*1601
97	A*3402	A*8001	B*1801	B*5301	Bw*4	Bw*6	Cw*0202	Cw*0602
98	A*0301	A*3303	B*1516	B*4701	Bw*4	–	Cw*0602	Cw*1402
99	A*7401	–	B*1503	B*5001	–	Bw*6	Cw*0202	Cw*0602
100	A*2402	A*3201	B*3801	B*4801	Bw*4	Bw*6	Cw*0801	Cw*1203
101	A*1101	A*3101	B*3901	B*4002	–	Bw*6	Cw*0304	Cw*0702
102	A*3303	–	B*4901	B*5801	Bw*4	–	Cw*0701	Cw*0718
103	A*0201	A*0301	B*5001	B*5702	Bw*4	Bw*6	Cw*0602	Cw*1801
104	A*0201	A*2301	B*3503	B*4006	–	Bw*6	Cw*0401	Cw*1502
105	A*1101	A*2402	B*1513	B*3802	Bw*4	–	Cw*0702	Cw*0803
106	A*1101	A*3001	B*1302	B*2705	Bw*4	–	Cw*0202	Cw*0602
107	A*3001	A*6802	B*4501	B*4901	Bw*4	Bw*6	Cw*0701	Cw*1601
108	A*0101	A*2402	B*2705	B*5701	Bw*4	–	Cw*0202	Cw*0602
109	A*0201	A*3101	B*1501	B*5601	–	Bw*6	Cw*0303	Cw*0701
110	A*0101	A*7401	B*1503	B*3701	Bw*4	Bw*6	Cw*0202	Cw*0602

Class I—Single-donor antigens, continued

Donor ID	HLA-A		HLA-B		HLA-Bw4/6		HLA-Cw	
111	A*0101	A*6602	B*5201	B*5801	Bw*4	–	Cw*0718	Cw*1202
113	A*0202	A*6601	B*0702	B*5301	Bw*4	Bw*6	Cw*0401	Cw*0702
114	A*0201	A*6801	B*1801	B*5201	Bw*4	Bw*6	Cw*0202	Cw*1601
115	A*0202	A*7401	B*1503	B*5301	Bw*4	Bw*6	Cw*0202	Cw*0602
116	A*2301	A*2601	B*0702	B*1401	–	Bw*6	Cw*0702	Cw*0802
117	A*3002	A*6801	B*1516	B*4201	Bw*4	Bw*6	Cw*1402	Cw*1701
118	A*1101	A*6802	B*1801	B*3801	Bw*4	Bw*6	Cw*0401	Cw*0602
119	A*1101	A*3303	B*1502	B*5801	Bw*4	Bw*6	Cw*0302	Cw*0801
120	A*0202	A*3402	B*0702	B*5301	Bw*4	Bw*6	Cw*0401	Cw*0702
121	A*0201	A*0301	B*1501	B*3701	Bw*4	Bw*6	Cw*0304	Cw*0602
122	A*2301	A*6602	B*0702	B*4410	Bw*4	Bw*6	Cw*0401	Cw*0702
123	A*0201	A*0301	B*3801	B*3906	Bw*4	Bw*6	Cw*0702	Cw*1203
124	A*0101	A*2902	B*3901	B*4403	Bw*4	Bw*6	Cw*1203	Cw*1601
125	A*2402	A*3201	B*5101	B*5601	Bw*4	Bw*6	Cw*0102	Cw*1602
126	A*0101	A*3101	B*0801	B*1401	–	Bw*6	Cw*0701	Cw*0802
127	A*0101	A*2601	B*0702	B*2705	Bw*4	Bw*6	Cw*0202	Cw*0702
128	A*0101	A*6901	B*0801	B*7301	–	Bw*6	Cw*0701	Cw*1505
129	A*0101	A*6802	B*5301	B*8101	Bw*4	Bw*6	Cw*0401	Cw*0804
130	A*0301	A*3201	B*1801	B*3701	Bw*4	Bw*6	Cw*0501	Cw*0602
131	A*0203	A*0207	B*4001	B*5401	–	Bw*6	Cw*0102	Cw*0702
132	A*0201	–	B*1401	B*4501	–	Bw*6	Cw*0602	Cw*0802
133	A*0101	A*6901	B*0801	B*3508	–	Bw*6	Cw*0701	Cw*1203
134	A*0101	A*0203	B*1512	B*3701	Bw*4	Bw*6	Cw*0403	Cw*0602
135	A*0301	A*1101	B*0702	B*5501	–	Bw*6	Cw*0303	Cw*0702
136	A*0101	A*0201	B*0702	B*3701	Bw*4	Bw*6	Cw*0602	Cw*0702

Class II—Single-donor antigens

ID	HLA-DRB1		HLA-DRB3/4/5		HLA-DQA1		HLA-DQB1		HLA-DPB1*0101	
02	DRB1*0302	DRB1*0901	DRB3*0101	DRB4*0101	DQA1*0201	DQA1*0401	DQB1*0202	DQB1*0402	DPB1*0201	DPB1*1701
03	DRB1*0301	–	DRB3*0202	–	DQA1*0501	–	DQB1*0201	–	DPB1*0101	DPB1*0401
04	DRB1*1001	DRB1*1102	DRB3*0202	–	DQA1*0505	DQA1*0104	DQB1*0301	DQB1*0501	DPB1*0101	DPB1*1001
05	DRB1*1101	DRB1*1202	DRB3*0202	DRB3*0301	DQA1*0505	–	DQB1*0301	–	DPB1*0301	DPB1*0501
06	DRB1*0701	DRB1*1602	DRB4*0103	DRB5*0101	DQA1*0201	DQA1*0102	DQB1*0202	DQB1*0502	DPB1*0401	DPB1*1301
07	DRB1*1301	DRB1*1602	DRB3*0202	DRB5*0202	DQA1*0102	–	DQB1*0502	DQB1*0608	DPB1*0101	DPB1*0402
08	DRB1*0404	DRB1*0407	DRB4*0103	–	DQA1*0302	–	DQB1*0301	DQB1*0302	DPB1*0401	DPB1*0501
09	DRB1*0901	DRB1*1101	DRB3*0202	DRB4*0101	DQA1*0201	DQA1*0505	DQB1*0202	DQB1*0301	DPB1*0101	DPB1*1801
11	DRB1*1001	DRB1*1402	DRB3*0101	–	DQA1*0105	DQA1*0503	DQB1*0501	DQB1*0301	DPB1*0201	DPB1*0402
12	DRB1*0101	DRB1*0401	DRB3*0101	–	DQA1*0101	DQA1*0302	DQB1*0301	DQB1*0501	DPB1*0201	DPB1*0401
13	DRB1*0301	DRB1*0701	DRB3*0202	DRB4*0101	DQA1*0501	DQA1*0201	DQB1*0201	DQB1*0202	DPB1*0202	DPB1*0401
15	DRB1*0403	DRB1*1404	DRB3*0202	DRB4*0103	DQA1*0302	DQA1*0104	DQB1*0302	DQB1*0503	DPB1*0401	–
16	DRB1*0701	–	DRB4*0101	DRB4*0103	DQA1*0201	–	DQB1*0202	–	DPB1*0101	DPB1*1701
17	DRB1*0101	DRB1*0901	DRB4*0103	–	DQA1*0303	DQA1*0501	DQB1*0303	DQB1*0501	DPB1*0201	DPB1*0401
18	DRB1*0301	DRB1*1401	DRB3*0101	DRB3*0202	DQA1*0501	DQA1*0104	DQB1*0201	DQB1*0503	DPB1*0301	DPB1*1701

Class II—Single-donor antigens, continued

ID	HLA-DRB1		HLA-DRB3/4/5		HLA-DQA1		HLA-DQB1		HLA-DPB1*0101	
19	DRB1*0804	DRB1*1501	DRB5*0101	–	DQA1*0401	DQA1*0102	DQB1*0402	DQB1*0602	DPB1*0401	DPB1*1401
20	DRB1*0301	DRB1*1202	DRB3*0101	DRB3*0301	DQA1*0501	DQA1*0505	DQB1*0201	DQB1*0301	DPB1*0401	DPB1*2101
21	DRB1*0302	DRB1*0806	DRB3*0101	–	DQA1*0501	DQA1*0401	DQB1*0301	DQB1*0402	DPB1*0101	DPB1*1301
22	DRB1*0302	DRB1*1303	DRB3*0101	DRB3*0202	DQA1*0201	DQA1*0401	DQB1*0202	DQB1*0402	DPB1*0101	DPB1*0301
23	DRB1*1501	DRB1*0103	DRB5*0101	–	DQA1*0501	DQA1*0102	DQB1*0301	DQB1*0602	DPB1*0401	–
24	DRB1*0701	DRB1*1502	DRB5*0102	–	DQA1*0303	DQA1*0102	DQB1*0303	DQB1*0601	DPB1*0401	DPB1*1401
25	DRB1*1101	DRB1*1104	DRB3*0202	–	DQA1*0505	–	DQB1*0301	–	DPB1*0201	DPB1*0402
26	DRB1*1501	–	DRB5*0101	–	DQA1*0102	–	DQB1*0602	–	DPB1*0401	–
27	DRB1*0901	–	DRB4*0101	DRB4*0103	DQA1*0201	–	DQB1*0202	–	DPB1*0101	–
28	DRB1*0102	DRB1*1301	DRB3*0101	–	DQA1*0303	DQA1*0101	DQB1*0303	DQB1*0501	DPB1*0401	DPB1*1401
29	DRB1*1201	DRB1*1406	DRB3*0202	DRB3*0301	DQA1*0501	DQA1*0104	DQB1*0301	–	DPB1*0101	DPB1*0201
30	DRB1*0801	DRB1*1301	DRB3*0202	–	DQA1*0401	DQA1*0103	DQB1*0402	DQB1*0603	DPB1*0401	–
31	DRB1*1001	DRB1*1303	DRB3*0101	–	DQA1*0105	DQA1*0505	DQB1*0501	DQB1*0301	DPB1*0402	DPB1*1701
32	DRB1*0101	DRB1*1201	DRB3*0202	–	DQA1*0101	DQA1*0201	DQB1*0501	DQB1*0301	DPB1*0201	DPB1*0301
33	DRB1*0102	DRB1*0701	–	–	DQA1*0302	DQA1*0401	DQB1*0501	DQB1*0303	DPB1*0401	DPB1*1301
34	DRB1*0802	DRB1*0901	DRB4*0101	–	DQA1*0102	DQA1*0506	DQB1*0402	DQB1*0303	DPB1*0201	DPB1*1301
35	DRB1*0102	DRB1*1302	DRB3*0301	–	DQA1*0101	DQA1*0102	DQB1*0501	DQB1*0609	DPB1*0101	DPB1*0201
36	DRB1*0302	–	DRB3*0101	–	DQA1*0401	DQA1*0401	DQB1*0402	–	DPB1*0101	DPB1*0201
37	DRB1*0806	DRB1*1602	DRB5*0101	–	DQA1*0102	DQA1*0505	DQB1*0502	DQB1*0301	DPB1*3901	DPB1*8501
38	DRB1*0802	DRB1*0803	–	–	DQA1*0201	DQA1*0303	DQB1*0302	DQB1*0601	DPB1*0101	–
39	DRB1*0301	DRB1*1401	DRB3*0202	DRB4*0301	DQA1*0105	DQA1*0501	DQB1*0201	DQB1*0503	DPB1*0602	DPB1*1701
40	DRB1*1104	DRB1*1401	DRB3*0202	–	DQA1*0104	DQA1*0505	DQB1*0301	DQB1*0503	DPB1*0401	DPB1*0402
41	DRB1*0901	DRB1*1401	DRB3*0202	DRB4*0101	DQA1*0105	DQA1*0302	DQB1*0303	DQB1*0503	DPB1*0301	–
42	DRB1*0804	DRB1*1503	DRB5*0101	–	DQA1*0401	DQA1*0501	DQB1*0201	DQB1*0301	DPB1*0201	DPB1*0301
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