

Table 3

HLA-B gene frequencies in five U.S. populations

Table 2 a. Gene Frequency of HLA-B alleles in five major ethnic groups from the U.S.

HLA-B	African Americans (n=251)	Caucasians (n=265)	Hispanics (n=234)	North American Natives (n=187)	Asians (n=358)
0702	0.0817	0.1113	0.0620	0.0668	0.0251
0704	0.0020				
0705 G	0.0139	0.0019	0.0043	0.0027	0.0139
0801	0.0458	0.1094	0.0385	0.0374	0.0125
1301					0.0334
1302	0.0120	0.0132	0.0150	0.0187	0.0195
1401	0.0080	0.0038	0.0107	0.0053	0.0014
1402	0.0179	0.0340	0.0406	0.0134	
1501 G	0.0100	0.0604	0.0278	0.0722	0.0474
1502	0.0020				0.0487
1503	0.0737		0.0171	0.0027	
1505			0.0021		
1507		0.0019		0.0080	0.0042
1508			0.0064		0.0014
1510	0.0239	0.0057	0.0043	0.0080	
1511					0.0028
1512 G					0.0014
1513					0.0028
1515	0.0020		0.0043	0.0027	0.0028
1516	0.0100		0.0021	0.0027	0.0014
1517	0.0040	0.0075	0.0043	0.0027	0.0014
1518	0.0080	0.0038			0.0139
1521					0.0139
1524				0.0027	0.0014
1525				0.0027	0.0070
1527					0.0014
1528			0.0021		
1529					0.0014
1530			0.0021		
1537	0.0020				
1542					0.0014
1801	0.0319	0.0283	0.0491	0.0214	0.0111
1802		0.0019			0.0042
2702		0.0019			
2704					0.0028
2705	0.0120	0.0226	0.0256	0.0856	0.0139
2706 G				0.0027	0.0070
3501 G	0.0637	0.0679	0.0705	0.1096	0.0390
3502			0.0043	0.0027	0.0014
3503		0.0189	0.0107	0.0080	0.0084
3504		0.0038	0.0064		
3505		0.0038	0.0085		0.0014
3508		0.0019	0.0043		0.0014
3509			0.0021		
3512			0.0235	0.0027	
3517			0.0064		
3701	0.0060	0.0208	0.0043	0.0053	0.0084
3801	0.0040	0.0245	0.0171	0.0107	0.0042

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3802		0.0019			0.0655
3901	0.0159	0.0038	0.0192	0.0401	0.0209
3902	0.0040		0.0043		0.0014
3903		0.0038		0.0053	
3905			0.0214	0.0053	
3906	0.0040	0.0075	0.0171	0.0187	
3908			0.0064		
4001	0.0100	0.0679	0.0150	0.0401	0.0919
4002	0.0020	0.0151	0.0513	0.0588	0.0320
4003				0.0027	0.0014
4004			0.0021		
4005	0.0040		0.0043	0.0027	0.0014
4006					0.0195
4012			0.0021		
4101		0.0075	0.0107	0.0080	
4102	0.0020	0.0057	0.0043	0.0053	
4201	0.0558	0.0038	0.0021		0.0028
4402G	0.0199	0.1170	0.0342	0.0428	0.0070
4403	0.0339	0.0302	0.0556	0.0321	0.0446
4404				0.0027	
4405			0.0021		
4406			0.0021		
4408		0.0019	0.0150		
4410	0.0020				
4501	0.0538	0.0038		0.0053	
4601					0.0655
4701	0.0040	0.0019			
4801			0.0128	0.0214	0.0237
4901	0.0339	0.0057	0.0192	0.0134	
5001	0.0060	0.0094	0.0235	0.0053	0.0014
5101G	0.0120	0.0566	0.0620	0.1123	0.0669
5102	0.0020		0.0043	0.0080	0.0042
5104					0.0014
5201	0.0159	0.0113	0.0449	0.0053	0.0181
5301	0.1056	0.0038	0.0299	0.0107	
5401					0.0362
5501	0.0080	0.0208	0.0085	0.0107	0.0028
5502	0.0020	0.0094			0.0251
5601		0.0075	0.0021	0.0080	0.0042
5602					0.0028
5701	0.0239	0.0415	0.0192	0.0214	0.0097
5702	0.0139				
5703	0.0040	0.0019	0.0064		
5801	0.0637	0.0113	0.0107	0.0080	0.0738
5802	0.0339			0.0027	
5901					0.0056
6701					0.0056
7301			0.0021		

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7801	0.0080		0.0043		
8101	0.0219		0.0021		0.0014
1510V**			0.0021		

G denotes a representative allele of a group that are not distinguished in this study because the sequences are identical across exons 2 and 3

B*0705G (B*0705, B*0706)

B*1512G (B*1512, B*1519)

B*1801G (B*1801, B*1817N)

B*2705G (B*2705, B*2712)

B*3501G (B*3501, B*3540N, B*3542)

B*4402G (B*4402, B*4419N, B*4427)

B*5101G (B*51011, B*5111N, B*5130, B*5132)

**** Denotes new variant of the allele that has not receive an official name yet.**

Source:

Cao K, Hollenbach J, Shi X, Shi W, Chopek M, Fernandez-Vina MA.

Analysis of the frequencies of HLA-A, B, and C alleles and haplotypes in the five major ethnic groups. Hum Immunol 2001; 62(9): 1009-30.

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mic groups of the United States reveals high levels of diversity in these loci and contrasting

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g distribution patterns in these populations.