

Table 8. Common associations of HLA-B alleles with alleles of HLA-C
(useful for prediction of potential C-MM; indicator for selection of multiple donors)

B serologic	HLA-B	HLA-C	B-C block according to HLA-B allele
7	0702	0702	very common
7	0704	0702	rare
7	0705	1505	common Asians, intermediate/rare others
7	0705	0702	intermediate African
8	0801	0701	very common
8	0801	0702	common Asians, rare others
13	1301	0304	common Asians
13	1301	0702	extremely rare
13	1301	0102	extremely rare
13	1302	0602	very common
14	1401	0802	very common
14	1402	0802	very common
15	1501	0303	very common
15	1501	0304	very common
15	1501	0401	common Asians
15	1501	0702	common Asians
15	1501	0102	very common Native Americans
15	1502	0801	very common Asians
15	1503	0202	very common Africans
15	1503	1203	rare
15	1507	0303	intermediate
15	1507	0102	common/intermediate Native Americans
15	1510	0304	very common Africans
15	1510	0302	rare
15	1515	0102	very common Native Americans
15	1516	1402	very common Africans
15	1516	1601	common/intermediate Africans
15	1517	0701	common Caucasians
15	1517	0501	intermediate/rare Caucasians
15	1518	0704	common/intermediate Caucasians/Asians
15	1518	0801	intermediate African
15	1522	0102	very common Native Americans
15	1524	0303	intermediate/rare Caucasians
15	1525	0403	common Asians
18	1801	0701	common
18	1801	1203	common
18	1801	0501	common
18	1801	0202	intermediate Africans
18	1801	0704	intermediate Africans
18	1803	0701	intermediate/rare Caucasians
27	2702	0202	intermediate/rare Caucasians
27	2705	0202	very common
27	2705	0102	very common
35	3501	0401	very common
35	3502	0401	common
35	3503	0401	common
35	3503	1203	common
35	3504	0401	common South American Natives

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35	3505	0401	common South American Natives
35	3505	0702	intermediate/rare Asians
35	3508	0401	intermediate Caucasians
35	3512	0401	very common Mexican and Central American Natives
35	3514	0401	intermediate Mexican and Central American Natives
35	3517	0401	very common Mexican and Central American Natives
37	3701	0602	very common
38	3801	1203	very common Caucasian/Middle Easterns
38	3802	0702	very common Asians
39	3901	1203	common Caucasians
39	3901	0702	common Asians, Native Americans
39	3903	0701	rare
39	3903	0702	common Native Americans
39	3905	0702	common Native Americans
39	3906	0702	common Caucasians, Native Americans
39	3908	0702	common Native Americans
39	3910	1203	common Africans
39	3911	0702	rare Native Americans
39	3924	0701	intermediate/rare Caucasians/Middle Easterns
40	4001	0304	very common
40	4001	0702	common Asians
40	4001	0401	common Asians
40	4002	0202	very common Caucasian
40	4002	0304	very common Asians/Native Americans
40	4002	1502	common Asians
40	4002	0305	Intermediate/rare Native Americans
4005	4005	0304	very common Native Americans
4005	4005	0801	rare Asians
40	4006	1502	common/intermediate Asians
40	4006	0801	very common Asians
40	4006	1202	rare Asians
40	4008	0304	rare Native Americans?
41	4101	1701	very common/common
41	4101	0701	intermediate/rare
41	4101	1601	intermediate/rare Africans?
41	4102	1701	very common
42	4201	1701	very common Africans
42	4202	1701	common/intermediate Africans
44	4402	0501	very common
44	4402	0704	common
44	4402	1604	intermediate/rare Caucasians
44	4403	1601	very common Caucasians
44	4403	0401	very common Africans/Caucasians
44	4403	0701	very common Asians/rare Africans
44	4403	1403	very common Asians/rare Africans
44	4404	1601	intermediate/rare Caucasians
44	4405	0202	intermediate Caucasians
45	4501	0602	very common

Table 8. Common associations of HLA-B alleles with alleles of HLA-C
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B serologic	HLA-B	HLA-C	B-C block according to HLA-B allele
45	4501	1601	very common
46	4601	0102	very common Asians
47	4701	0602	very common
48	4801	0801	very common Asians/Native Americans
48	4801	0803	very common Asians/Native Americans
48	4801	0304	very rare
48	4803	0801	common only in selected South American Natives
49	4901	0701	very common
50	5001	0602	very common
51	5101	1502	common
51	5101	1402	very common
51	5101	0202	intermediate/rare
51	5101	0102	intermediate
51	5101	0401	intermediate/rare
51	5101	1601	intermediate African
51	5101	1504	intermediate/rare
51	5101	1602	intermediate/rare
51	5102	0801	common Native Americans
51	5102	1402	common Asians
51	5102	1502	common Asians
51	5107	1402	intermediate/rare
51	5108	1602	intermediate/rare
51	5109	0102	intermediate/rare
52	5201	1202	very common Caucasians/Asians
52	5201	1601	common Africans
52	5201	0303	very common Native Americans
53	5301	0401	very common
53	5301	0602	intermediate/rare Africans
54	5401	0102	very common Asians
55	5501	0303	very common Caucasians
55	5501	0102	intermediate/rare Caucasians
55	5502	0102	very common Asians/intermediate Caucasians
56	5601	0102	very common
57	5701	0602	very common Caucasians/Asians
57	5701	0701	common Africans-intermediate/rare Caucasians
57	5702	1801	intermediate Africans
57	5702	0401	rare Africans
57	5703	0701	very common Africans
57	5703	1801	very common Africans
57	5703	0602	intermediate/rare Africans/Caucasians
58	5801	0701	very common Africans-Intermediate/Caucasians
58	5801	0302	very common
58	5802	0602	very common Africans
58	5802	0401	intermediate/rare Africans
67	6701	0702	common Asians
81	8101	0804	common Africans
81	8101	1801	very common Africans
82	8201	0302	intermediate/rare Africans

Table 8. Common associations of HLA-B alleles with alleles of HLA-C
(useful for prediction of potential C-MM; indicator for selection of multiple donors)

B serologic	HLA-B	HLA-C	B-C block according to HLA-B allele
7	0702	0701	extremely rare
7	0702	1203	extremely rare
7	0705	0401	extremely rare
14	1401	1505	rare
14	1402	0202	rare
14	1402	1505	rare
15	1501	0602	rare
27	2702	0501	rare
27	2705	0303	intermediate/rare Asians
27	2705	0501	rare
27	2705	0702	rare
27	2705	1502	rare
35	3501	0303	intermediate/rare Asians
35	3501	0702	intermediate/rare Asians
35	3501	0304	intermediate/rare Asians
35	3501	0404	common some North American Natives
35	3501	1601	intermediate/rare Africans
35	3501	1502	rare
35	3502	0602	rare
35	3502	0202	rare
35	3503	0702	rare
35	3503	0304	rare
35	3503	0602	rare
38	3801	0102	rare
38	3801	0602	rare
39	3901	1502	Intermediate/rare Native Americans
40	4002	0306	rare
40	4002	0501	rare
40	4002	0702	rare
40	4002	0704	rare
41	4101	0802	rare
44	4402	0202	rare
44	4402	1203	rare
44	4403	0202	rare
44	4403	1602	rare
49	4901	1203	rare
49	4901	0202	rare
49	4901	0602	rare
50	5001	0202	rare
51	5101	1602	rare
51	5101	0303	rare
51	5101	0501	rare
51	5101	0702	rare
51	5101	0701	rare
51	5101	1203	rare
51	5101	0304	rare
55	5501	0304	rare

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B serologic	HLA-B	HLA-C	B-C block according to HLA-B allele
56	5601	0702	rare
57	5701	0303	rare
7	0702	0304	Extremely rare
7	0702	0303	Extremely rare
7	0702	0401	Extremely rare
7	0702	0202	Extremely rare
7	0702	0501	Extremely rare
7	0702	0602	Extremely rare
8	0801	0304	Extremely rare
8	0801	0602	Extremely rare
8	0801	0401	Extremely rare
8	0801	0102	Extremely rare
15	1501	0501	Extremely rare
15	1501	0801	Extremely rare
15	1501	1203	Extremely rare
15	1501	0704	Extremely rare
15	1501	0701	Extremely rare
18	1801	0401	Extremely rare
18	1801	0602	Extremely rare
27	2705	0401	Extremely rare
27	2705	0704	Extremely rare
35	3501	1203	Extremely rare
35	3501	0704	Extremely rare
40	4001	0303	Extremely rare
40	4001	1402	Extremely rare
44	4402	0304	Extremely rare
44	4402	0303	Extremely rare
44	4402	0602	Extremely rare
44	4402	0401	Extremely rare
44	4402	0701	Extremely rare
44	4402	1402	Extremely rare
44	4403	0501	Extremely rare
44	4403	0303	Extremely rare
44	4403	0702	Extremely rare
51	5101	0602	Extremely rare
51	5101	1505	Extremely rare
51	5101	1506	Extremely rare

Reference:

- 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 Hum Immunol 2001: 62(9): 1009-30
- Burdett L, Single R., Maiers, M., Smith K., Hartzman R., Thomson G, Fernandez Vina M. HL

Table 8. Common associations of HLA-B alleles with alleles of HLA-C
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B serologic	HLA-B	HLA-C	B-C block according to HLA-B allele
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