

Frequencies of Rare Alleles

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www.allelefrequencies.net

RARE ALLELE SEARCH

IMGT/HLA	Allele Frequencies Website			IMGT/HLA					NMDP						Other Labs					ASHI		
Allele	Pops with allele in website	See lower resolution	See sequences identical over exons 2 + 3'	Allele initially sequenced in population	Sequence confirmed	Cells	Groups	Length	Total	AFA	API	CAU	HIS	NAM	OTH	Total	BLA	CAU	MES	HIS	OTH	Conf
B*1595 ⓘ	0			Black - African American, Unknown	Unconfirmed	1	1	Partial	1	1						0						
B*1596 ⓘ	0			Caucasoid - British Isles, Europe	Unconfirmed	1	1	Partial	0							0						
B*1597 ⓘ	0			Unknown	Unconfirmed	1	1	Partial	0							0						
B*180102 ⓘ	0	B*1801		Caucasoid - Unknown	Unconfirmed	1	1	Partial	-							1				1		
B*180103 ⓘ	0	B*1801	B*180101 , B*1817N	Hispanic - Unknown	Unconfirmed	1	1	Partial	-							0						

INFORMATION PROVIDED BY INDIVIDUAL LAB ON RARE ALLELE

B*180102

Action	Allele	ID of individual	Notes	Ethnicity	Popu
See 	B*180102	03/703		Hispanic	Vene

Rare HLA Alleles Submission Form

Information

* **Allele Name:** **B*180102**

As assigned by WHO HLA nomenclature committee

* **ID of individual possessing allele:** **03/703**

Give designated name of Cell / DNA used

Ethnicity: Hispanic
 Population: Venezuela
 Individual type: Bone marrow patient

Haplotype confirmation: **Confirmed by family studies**

Haplotypes

Locus	Haplotype 1
HLA-A	0201
HLA-B	180102
HLA-C	0701
HLA-DRA1	
HLA-DRB1	1104
HLA-DQA1	0505
HLA-DQB1	0301
HLA-DPA1	
HLA-DPB1	0201

Other family members with same allele:
 Individuals typed to the same resolution
 as the individual with the rare allele: 5686
 Method(s) used to detect allele: SSP

Submitter

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Summary of Results

Locus	Alleles IMGT/HLA	Very Rare	%	Rare	%	Frequent	%
A	1518	673	44.3%	413	27.2%	432	28.5%
B	2068	853	41.2%	561	27.1%	654	31.6%
C	1016	436	42.9%	289	28.4%	291	28.6%
DRB1	873	289	33.1%	234	26.8%	350	40.1%
DPA1	28	12	42.9%	6	21.4%	10	35.7%
DPB1	145	43	29.7%	42	29.0%	60	41.4%
DQA1	35	6	17.1%	13	37.1%	16	45.7%
DQB1	144	50	34.7%	28	19.4%	66	45.8%
	5827	2362		1586		1879	

Last Update: Release 3.3.0, 14 January, 2011

Participants

Adrian Fleet	AUS	Michael Aubrey	USA
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The Royal Liverpool and
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Contact

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Rare Alleles Submissions by UK Labs

Laboratory	Number of submissions	Alleles reported only once in UK labs
Anthony Nolan	47	33
Barts	19	6
Belfast	0	0
Birmingham	7	0
Bristol (Solid)	1	0
Bristol (Stem cell)	-	-
Cambridge	2	0
Cardiff	122	20
Colindale	73	53
Dublin (BTS)	25	10
Dublin (Solid)	-	-
Edinburgh	0	0
Glasgow	5	2
Guys	-	-
Hammersmith	-	-

Rare Alleles Submissions by UK Labs (Cont)

Laboratory	Number of submissions	Alleles reported only once in UK labs
Harefield	0	0
Leeds	13	4
Leicester	0	0
Liverpool	0	0
Manchester	34	17
Newcastle	8	6
Oxford	-	-
Plymouth	0	0
Sheffield	8	7
Tooting	-	-
Total	364	158

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Continuation of 15th IHW, T Ag 2009, 74, 480

We went to expand our sources of data
especially different ethnicities

Any interested Lab will be sent 2 lists of alleles

Alleles never reported after initial sequence

Alleles that have been found on 1-3 occasions
after initial sequence