

# Product datasheet



## sHLA– DQB1\*02:01bio DQA1\*02:01bio

DQB1\*0201, DQB10201, DQB1\*02, DQB02, DQ2  
DQA1\*0201, DQA10201, DQA1\*02, DQA02

<b>Serological Name</b>	DQ2
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Biotin
<b>SKU</b>	DQB10201/DQA10201bio

### Product Description

<b>Allele Name</b>	DQA1*02:01 DQB1*02:01
<b>HLA Class</b>	HLA Class II
<b>HLA Gene Locus</b>	HLA-DQ
<b>Alternative Allele Name A Chain</b>	DQA1*0201, DQA10201, DQA1*02, DQA02
<b>Alternative Allele Name B Chain</b>	DQB1*0201, DQB10201, DQB1*02, DQB02, DQ2
<b>Description</b>	Recombinant, truncated Class II soluble Human Leukocyte Antigen (sHLA), naturally folded and glycosylated, loaded with endogenous peptides.
<b>Serological Name</b>	DQ2
<b>Serological Split</b>	-
<b>Allele Frequency [World Population]</b>	
<b>A chain</b>	10.1%
<b>B chain</b>	11.4%

### Associated products

[DQB10201/DQA10201](#)  
[DQB10201/DQA10201pe](#)

## Product Specification

<b>Product name</b>	HLA-DQB1*02:01/DQA1*02:01bio
<b>HLA Species</b>	Human
<b>Host Cell Line Species</b>	Mouse
<b>Clone Designation</b>	E12G8
<b>Tail Specification</b>	ZP
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Biotin
<b>Complexity</b>	Monomer
<b>Protein Format</b>	Recombinant, truncated, zipper-stabilized, soluble, non-modified, biotinylated, endogenously loaded
<b>Storage Temperature</b>	4°C (This product should be stored undiluted)
<b>Form</b>	Liquid
<b>Concentration</b>	300.0 µg/µl
<b>Formulation</b>	PBS/0.02% Sodium Azide
<b>pH</b>	7.4
<b>Purification Method</b>	Affinity Chromatography
<b>Grade</b>	Research Use Only [RUO]
<b>Authentication Verification</b>	Sequence Based Typing

## Protein Sequences

<b>Alpha Chain Sequence</b>	EDIVADHVAS YGVNLYQSYG PSGQFTHEFD GDEEFYVDLE RKETVWKLPL FHRLR.FDPQ FALTNI AVLK HNLNLIKRS NSTAATNEVP EVT VFSKSPV TLGQPNTLIC LVDNIFPPVV NITWLSNGHS VTEGVSETSF LSKSDHSFFK ISYLTFLPSA DEIYDCKVEH WGLDEPLLKH WEPEIPAPMS EVDGGGGGAQ LEKELQALEK ENAQLEWELQ ALEKELAQ
<b>Beta Chain Sequence</b>	RDSPEDFYVQ FKGMCYFTNG TERVRLVSR S IYNREEIVRF DSDVGEFRAV TLLGLPAAEY WNSQKDILER KRAAVDRVCR HNYQLELRTT LQRRVEPTVT ISPSRTEALN HHNLLVCSVT DFYPAQIKVR WFRNDQEETA GVVSTPLIRN GDWTFQILVM LEMTPQRGDV YTCHVEHPSL QSPTTVEWRA QSESAQSKVD GGGGAQLKK KLQALKKKNA QLKWKLQALK KKLAQ

## Related Products

[DQB10202/DQA10201bio](#)  
[DQB10301/DQA10201bio](#)  
[DQB10602/DQA10102bio](#)  
[DQB10302/DQA10201bio](#)

## Applications

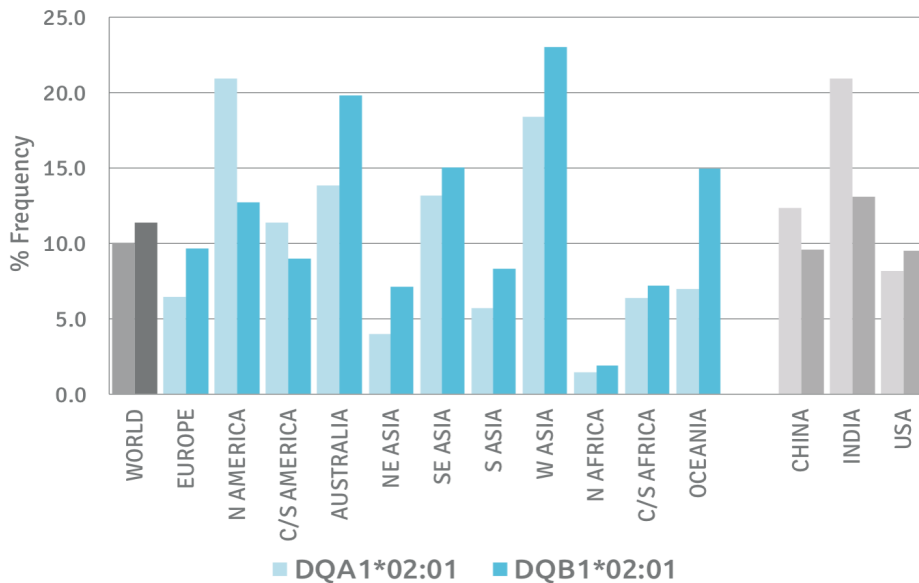
HLA Sandwich ELISAs  
 HLA Direct ELISAs  
 HLA-Sera Antibody Assays  
 HLA Controls in ELISA Assays  
 HLA Assay Standards  
 HLA Blocking Assays  
 HLA Neutralizing Assays  
 HLA Competition Assays  
 HLA Bead Assays  
 HLA Immunization Procedures

## Recommended Antibodies

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## Allele Frequency

### Worldwide Allele Frequency



Please note:

ALL PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR COMMERCIAL USE IN DIAGNOSTIC PROCEDURES.  
 For more information, please visit our Policies section on our website. For licensing inquiries, please contact

[licensing@hlaprotein.com](mailto:licensing@hlaprotein.com)

HLA Protein  
 PURE PROTEIN LLC

**Eplet Assignments**

**DQB1\*02:01**

Eplet	Polymorphic Residues	Antibody Reactivity
3S	3S	
9Y	9Y	
13GM	13G14M	
23R	23R	
26L	26L	
45G	45G	
52LL	52L 55L 28S 30S 37I	Yes
56P	56P	
56PA	56P57A	
66D	66D67I	
66DR	66D67I70R	
75V	75V	
77R	75V77R	Yes
84QL	84Q 86E 87L 89T 90T 125A	Yes
130R	130R	
135D	135D	
167R	167R	
182S	182S	Yes
185T	185T	

**Eplet Assignments**

**DQA1\*02:01**

Eplet	Polymorphic Residues	Antibody Reactivity
2D	2D 199A	Yes
25FT	25F26T	
40E	40E	Yes
40ERV	40E41R45V	
47KHL	47K52H54L	Yes
61FT	61F 64T 55R	Yes
66IL	66I69L	
75I	75I 161D 163I	
75IL	75I76L	
76L	76L	
129H	129H	
160A	160A	
160AD	160A161D	
175E	175E	

