

# Product datasheet

## sHLA-B\*42:01bio

B\*4201, B4201, B\*42, B42, B42



<b>Serological Name</b>	B42
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Biotin
<b>SKU</b>	B4201bio

### Product Description

<b>Allele Name</b>	B*42:01 B2m
<b>HLA Class</b>	HLA Class I
<b>HLA Gene Locus</b>	HLA-B
<b>Alternative Allele Name A Chain</b>	B*4201, B4201, B*42, B42, B42
<b>Alternative Allele Name B Chain</b>	-

**Description** Recombinant, truncated Class I soluble Human Leukocyte Antigen (sHLA), naturally folded and glycosylated, loaded with endogenous peptides.

<b>Serological Name</b>	B42
<b>Serological Split</b>	-
<b>Bw4/Bw6 Assignment</b>	Bw6
<b>Bw4/Bw6 Sequence</b>	SLRNLRG
<b>Allele Frequency [World Population]</b>	
<b>A chain</b>	1.6%
<b>B chain</b>	-

### Associated products

[B4201](#)  
[B4201pe](#)

## Product Specification

<b>Product name</b>	HLA-B*42:01bio
<b>HLA Species</b>	Human
<b>Host Cell Line Species</b>	Human
<b>Clone Designation</b>	E9H7
<b>Tail Specification</b>	VLDL
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Biotin
<b>Complexity</b>	Monomer
<b>Protein Format</b>	Recombinant, truncated, 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>	GSHSMRYFYT SVSRPGRGEP RFISVGYVDD TQFVRFSDSA ASPREEPRAP WIEQEGPEYW DRNTQIYKAQ AQTDRSLRN LRGYYNQSEA GSHTLQSMYG CDVGPDRLL RGHNQYAYDG KDYIALNEDL RSWTAADTAA QITQRKWEAA RVAEQDRAYL EGTTCVEWLR YLENGKDTLE RADPPKTHVT HHPISDHEAT LRCWALGFYP AEITLTWQRD GEDQTQDTEL VETRPAGDRT FQKWAAVVVP SGEEQRYTCH VQHEGLPKPL TLRVSVSTDD DLA
<b>Beta Chain Sequence</b>	IQRTPKIQVY SRHPAENGKS NFLNCYVSGF HPSDIEVDLL KNGERIEKVE HSDLSFSKDW SFYLLYYTEF TPTEKDEYAC RVNHVTLSPQ KIVKWDRDM

## Related Products

[B4202bio](#)  
[A0201bio](#)  
[A0301bio](#)  
[B0702bio](#)

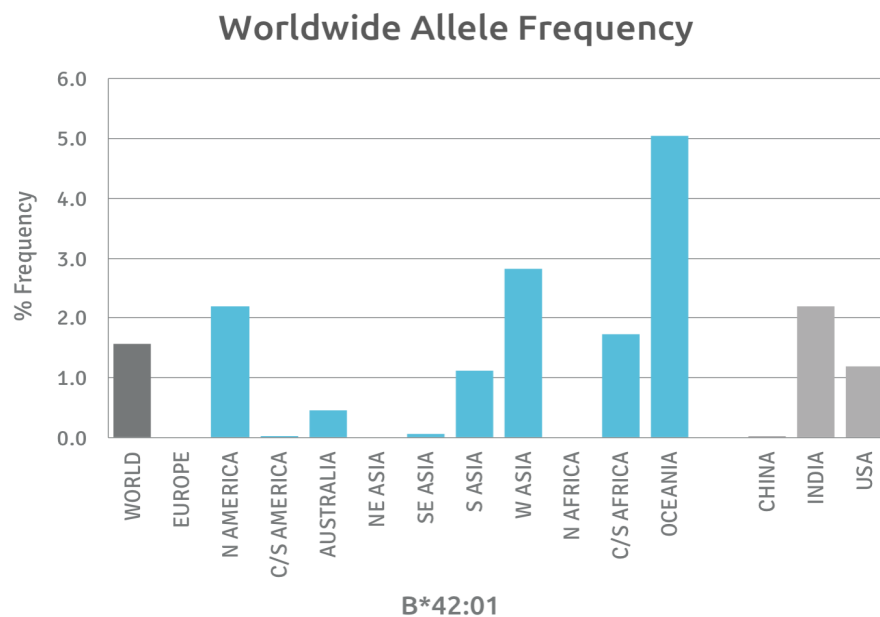
## Applications

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

W6/32  
Anti-B2m

## Allele Frequency



Please note:

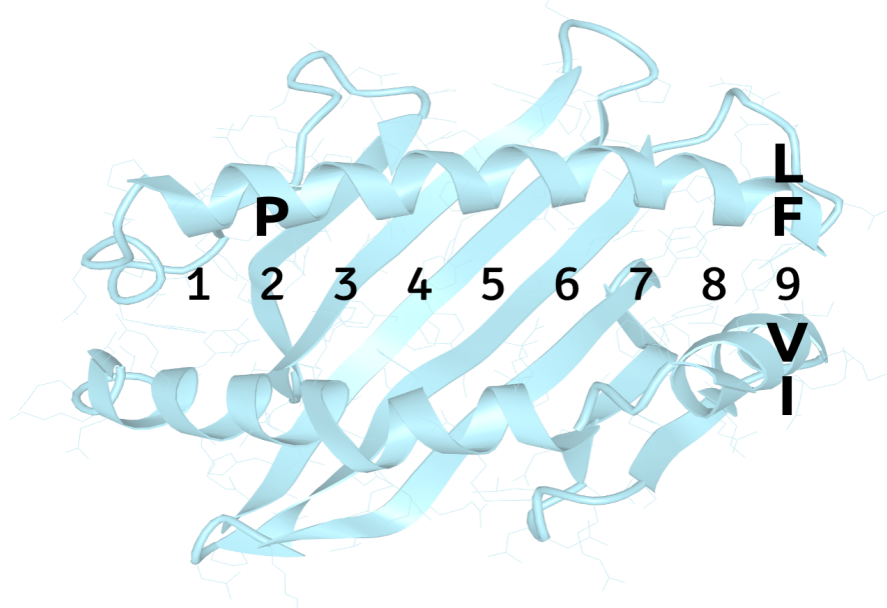
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 HLA Protein  
PURE PROTEIN, LLC

## Motif

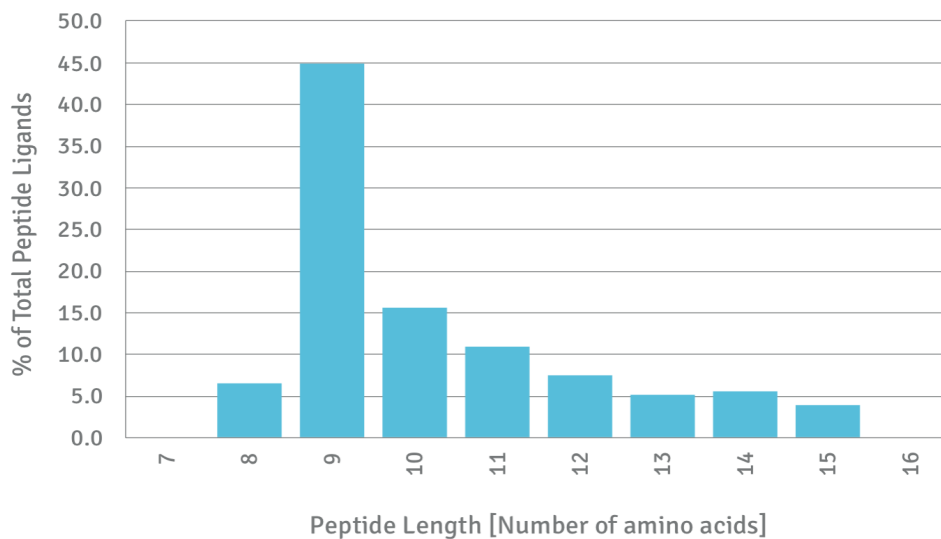
### B\*42:01 BINDING MOTIF



## Length Distribution

### HLA Length Distribution

**B\*42:01**



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# Eplet Assignments

B\*42:01

Eplet	Polymorphic Residues	Antibody Reactivity
9Y	9Y	
24S	24S	
45EE	45E46E	
62RN	62R63N	
63NI	63N66I	
65QIA	65Q66I69A	Yes
66I	66I	
66IY	66I67Y	
69AA	69A71A	Yes
70IAQ	66I69A70Q	Yes
76ES	76E77S	
76ESN	76E77S80N	Yes
77S	77S	
77SRN	77S79R80N	
80N	80N	Yes
95L	95L	
97S	97S	
99Y	99Y	
113H	113H	
113HN	113H114N	
116Y	116Y	
151ARV	150A151R152V	
152V	152V	
156DA	156D158A	Yes
163T	163T	
177DT	177D178T	
180E	180E	Yes
193PI	193P194I	