

# Product datasheet



## sHLA-A\*31:01

A\*3101, A3101, A\*31, A31, A31

<b>Serological Name</b>	A31
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Unconjugated
<b>SKU</b>	A3101

### Product Description

<b>Allele Name</b>	A*31:01 B2m
<b>HLA Class</b>	HLA Class I
<b>HLA Gene Locus</b>	HLA-A
<b>Alternative Allele Name A Chain</b>	A*3101, A3101, A*31, A31, A31
<b>Alternative Allele Name B Chain</b>	-
<b>Description</b>	Recombinant, truncated Class I soluble Human Leukocyte Antigen (sHLA), naturally folded and glycosylated, loaded with endogenous peptides.
<b>Serological Name</b>	A31
<b>Serological Split</b>	A19
<b>Bw4/Bw6 Assignment</b>	-
<b>Bw4/Bw6 Sequence</b>	-
<b>Allele Frequency [World Population]</b>	
<b>A chain</b>	3.60%
<b>B chain</b>	-

### Associated products

[A3101bio](#)  
[A3101pe](#)

## Product Specification

<b>Product name</b>	HLA-A*31:01
<b>HLA Species</b>	Human
<b>Host Cell Line Species</b>	Human
<b>Clone Designation</b>	G2E10
<b>Tail Specification</b>	VLDL
<b>Peptide Load</b>	Endogenous
<b>Modification</b>	Unmodified
<b>Conjugation</b>	Unconjugated
<b>Complexity</b>	Monomer
<b>Protein Format</b>	Recombinant, truncated, soluble, non-modified, non-labeled, endogenously loaded
<b>Storage Temperature</b>	4 °C (This product should be stored undiluted)
<b>Form</b>	Liquid
<b>Concentration</b>	1000.0 µg/ml
<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>	GSHSMRYFTT SVSRPGRGEP RFIAVGYVDD TQFVRFSDSA ASQRMEPRAP WIEQERPEYW DQETRNKKAH SQIDRVDLGT LRGYYNQSEA GSHTIQMMYG CDVGS DGRFL RGYQQDAYDG KDYIALNEDL RSWTAADMAA QITQRKWEAA RVAEQLRAYL EGTTCVEWLR R YLENGKETLQ RTDPPKTHMT HHAVSDHEAT LRCWALSFP YP AEITLTWQRD GEDQTQDTEL VETRPAGDGT FQKWASVVVP SGQEQR YTCH VQHEGLPKPL TLRSVVSTDD DLA
<b>Beta Chain Sequence</b>	IQRTPKIQVY SRHPAENGKS NFLNCYVSGF HPSDIEVDLL KNGERIEKVE HSDLSFSKDW SFYLLYYTEF TPTEKDEYAC RVNHVTL SQP KIVKWRDRM

## Related Products

[A0201](#)  
[A0301](#)  
[A2402](#)  
[B0702](#)

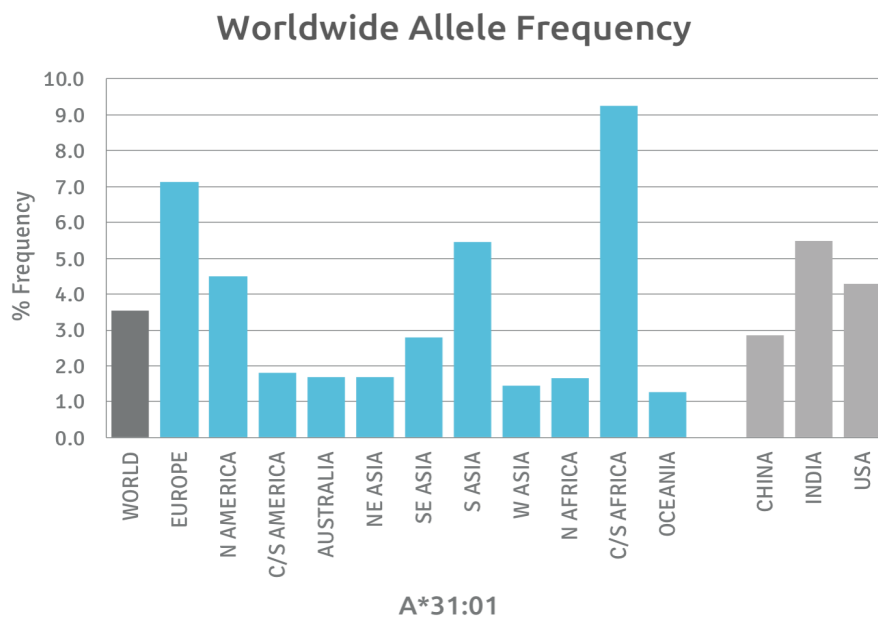
## Applications

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



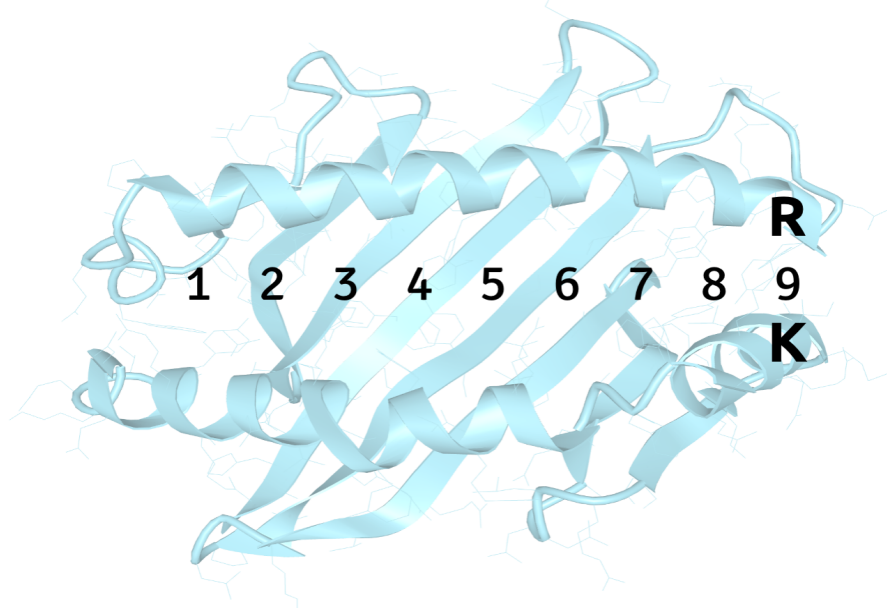
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 HLA Protein  
PURE PROTEIN, LLC

## Motif

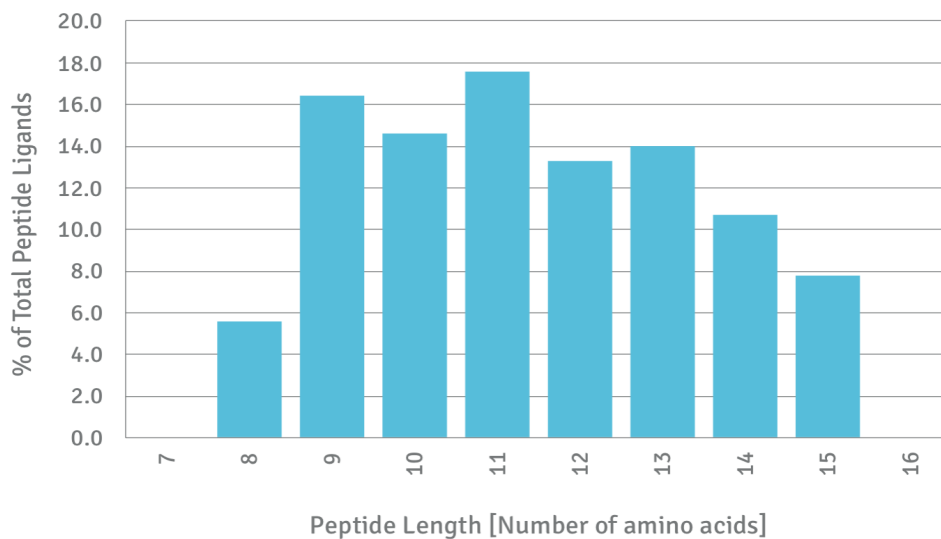
### A\*31:01 BINDING MOTIF



## Length Distribution

### HLA Length Distribution

**A\*31:01**



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# Eplet Assignments

A\*31:01

Eplet	Polymorphic Residues	Antibody Reactivity
9T	9T	
44RM	44R45M	
44RME	44R45M46E(67V)	
56R	56R	Yes
62QE	62Q63E	Yes
65RA	65R69A	
65RNA	65R66N69A	Yes
66N	66N	
66NH	66N70H	
66NV	66N67V	
71HS	70H71S	
73ID	73I77D	
76VDT	76V77D80T	
77D	77D	
79GT	79G80T	Yes
80T	80T	
80TL	80T81L	
95I	95I	
97M	97M	
99Y	99Y	
105S	105S	
109F	109F	
114Q	114Q	
116D	116D	
138MI	138M142I	Yes
151ARV	150A151R152V	
152V	152V	
156L	156L	
163T	163T	
193AV	193A194V	
194V	194V	
207S	207S	
245AS	245A246S	
253Q	253Q	Yes

