

# Product datasheet



## sHLA-A\*03:01

A\*0301, A0301, A\*03, A03, A3

|                         |              |
|-------------------------|--------------|
| <b>Serological Name</b> | A3           |
| <b>Peptide Load</b>     | Endogenous   |
| <b>Modification</b>     | Unmodified   |
| <b>Conjugation</b>      | Unconjugated |
| <b>SKU</b>              | A0301        |

### Product Description

|                                            |                                                                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Allele Name</b>                         | A*03:01<br>B2m                                                                                                                             |
| <b>HLA Class</b>                           | HLA Class I                                                                                                                                |
| <b>HLA Gene Locus</b>                      | HLA-A                                                                                                                                      |
| <b>Alternative Allele Name A Chain</b>     | A*0301, A0301, A*03, A03, A3                                                                                                               |
| <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>                    | A3                                                                                                                                         |
| <b>Serological Split</b>                   | –                                                                                                                                          |
| <b>Bw4/Bw6 Assignment</b>                  | –                                                                                                                                          |
| <b>Bw4/Bw6 Sequence</b>                    | –                                                                                                                                          |
| <b>Allele Frequency [World Population]</b> |                                                                                                                                            |
| A chain                                    | 5.10%                                                                                                                                      |
| B chain                                    | –                                                                                                                                          |

### Associated products

A0301bio  
A0301pe

## Product Specification

|                             |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| Product name                | HLA-A*03:01                                                                     |
| HLA Species                 | Human                                                                           |
| Host Cell Line Species      | Human                                                                           |
| Clone Designation           | YZ                                                                              |
| Tail Specification          | None                                                                            |
| Peptide Load                | Endogenous                                                                      |
| Modification                | Unmodified                                                                      |
| Conjugation                 | Unconjugated                                                                    |
| Complexity                  | Monomer                                                                         |
| Protein Format              | Recombinant, truncated, soluble, non-modified, non-labeled, endogenously loaded |
| Storage Temperature         | 4 °C (This product should be stored undiluted)                                  |
| Form                        | Liquid                                                                          |
| Concentration               | 1000.0 µg/µl                                                                    |
| Formulation                 | PBS/0.02% Sodium Azide                                                          |
| pH                          | 7.4                                                                             |
| Purification Method         | Affinity Chromatography                                                         |
| Grade                       | Research Use Only [RUO]                                                         |
| Authentication Verification | Sequence Based Typing                                                           |

## Protein Sequences

|                      |                                                                                                                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alpha Chain Sequence | GSHSMRYFFT SVSRPGRGEP RFIAVGYVDD TQFVRFSDSA ASQRMEPRAP WIEQEGPEYW<br>DQETRNKVAQ SQTDRVDLGT LRGYYNQSEA GSHTIQIMYG CDVGS DGRFL RGYRQDAYDG<br>KDYIALNEDL RSWTAADMAA QITKRKWEAA HEAEQLRAYL DGTCVEWLR R YLENGKETLQ<br>RTDPPKTHMT HHPISDHEAT LRCWALGFYP AEITLTWQRD GEDQTQDTEL VETRPAGDGT<br>FQKWA AVVP SGEEQRYTCH VQHEGLPKPL TLR |
| Beta Chain Sequence  | IQRTPKIQVY SRHPAENGKS NFLNCYVSGF HPSDIEVDLL KNGERIEKVE HSDL SFSKDW<br>SFYLLYYTEF TPTEKDEYAC RVNHVTL SQP KIVKWDRDM                                                                                                                                                                                                          |

## Related Products

[A1101](#)  
[A1102](#)  
[A0201](#)  
[B0702](#)

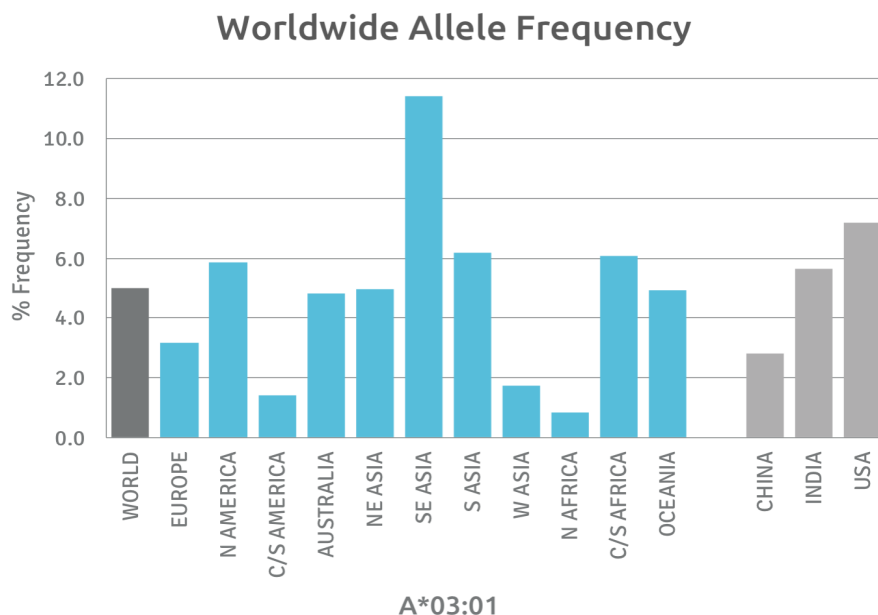
## Applications

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



Please note:

ALL PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR COMMERCIAL USE IN DIAGNOSTIC PROCEDURES.

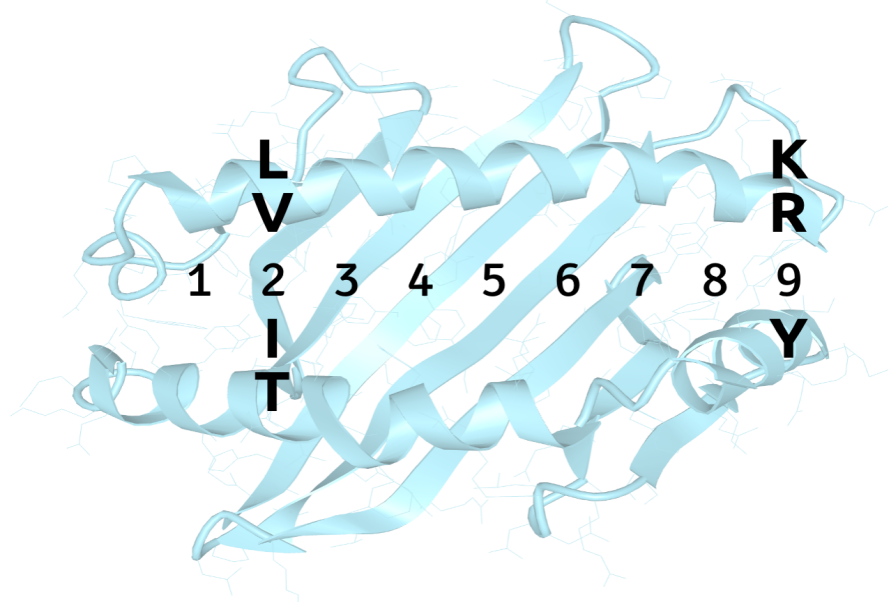
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 HLA Protein  
PURE PROTEIN, LLC

## Motif

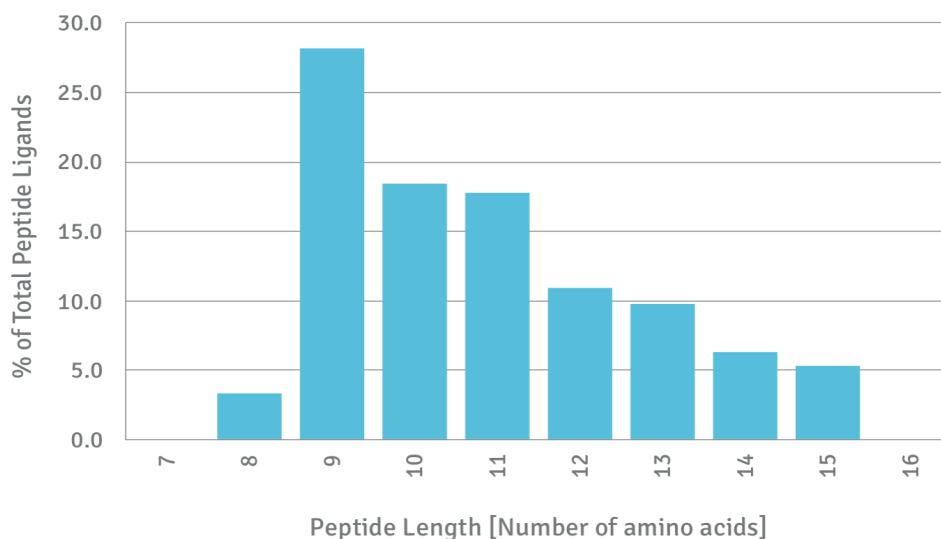
### A\*03:01 BINDING MOTIF



## Length Distribution

### HLA Length Distribution

**A\*03:01**



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## Eplet Assignments

**A\*03:01**

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