

Recombinant Full Length Human HLA-A Protein, GST-tagged

Cat. No. HLA-A-3557HF **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Human HLA-A full-length ORF (AAH03069, 24 a.a. - 365 a.a.) recombinant protein with GST-tag at N-terminal. |
| Species | Human |
| Source | In Vitro Cell Free System |
| ProteinLength | 24-365 amino acids |
| Description | <p>HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-A alleles have been described. [provided by RefSeq</p> |
| Molecular Mass | 63.36 kDa |
| AA Sequence | AGSHSMRYFFTSVSRPGRGEPFRFIAVGYVDDTQFVRFDSAASQKMEPRAPWIEQ |

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EGPEYWDQETRNMKAHSQTDSPANLGLTRGYYNQSEDGSHTIQIMYGCDVGPDGR
 FLRGYRQDAYDYGKDYIALNEDLRSWTAADMAAQITKRKWEAVHAAEQRRVYLEGR
 CVDGLRRYLENGKETLQRTDPPKTHMTHHPISDHEATLRCWALGFYPAEITLTWQR
 DGEDQTQDTELVETRPAGDGTGFQKWAAVVVPSGEEQRYTCHVQHEGLPKPLTLR
 WELSSQPTIPIVGIIAGLVLLGAVITGAVVAAVMWRRKSSDRKGGSYTQAASSDSAQ
 GSDVSLTACKV

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| Applications | Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array |
| Notes | Best use within three months from the date of receipt of this protein. |
| Storage | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing. |
| Storage Buffer | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

GENE INFORMATION

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name | HLA-A major histocompatibility complex, class I, A [Homo sapiens] |
| Official Symbol | HLA-A |
| Synonyms | HLA-A; major histocompatibility complex, class I, A; HLA class I histocompatibility antigen, A-1 alpha chain; antigen presenting molecule; leukocyte antigen class I-A; MHC class I antigen HLA-A heavy chain; HLAA; FLJ26655; |
| Gene ID | 3105 |
| mRNA Refseq | NM_001242758 |



Protein Refseq NP_001229687

MIM 142800

UniProt ID P01891

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