

## Recombinant Human HLA-B Protein, Flag-tagged

**Cat. No.** HLA-B-354H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human HLA-B Protein is produced by HEK293T expression system. This protein is fused with a Flag tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>HLA-B 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, exon 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-B alleles have been described.</p>
<b>Form</b>	PBS buffer
<b>Molecular Mass</b>	38 kDa
<b>AA Sequence</b>	MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPFISVGYVDDTQ

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FVRFSDAASPREEPRAPWIEQEGPEYWRNTQIFKTNTQTDRESLRNLRGYYNQS  
 EAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIALNEDLRSWTAADTAAQIT  
 QRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHE  
 ATLCRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGE  
 EQRYTCHVQHEGLPKPLTLRWEPSSQSTVPIVGIVAGLAVLAVVVIGAVVAVMCRR  
 KSSGGKGGSYSQAACSDSAQGSVDVSLTATRTRPLEQKLISEEDLAANDILDYKDDD  
 DKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

## GENE INFORMATION

**Gene Name** HLA-B major histocompatibility complex, class I, B [ Homo sapiens ]

**Official Symbol** HLA-B

**Synonyms** HLA-B; AS; HLAB; SPDA1; MGC111087;

**Gene ID** 3106

**mRNA Refseq** NM\_005514

**Protein Refseq** NP\_005505

**UniProt ID** P01889

Purified recombinant protein HLA was analyzed by SDS-PAGE gel and Coomassie Blue Staining

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