

Recombinant Human HLA-B Protein, Flag-tagged

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

SPECIFICATION

Product Overview	Recombinant Human HLA-B Protein is produced by HEK293T expression system. This protein is fused with a Flag tag.
Species	Human
Source	HEK293
Description	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.
Form	PBS buffer
Molecular Mass	38 kDa
AA Sequence	MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPFISVGYVDDTQ

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FVRFSDAASPREEPRAPWIEQEGPEYWRNTQIFKTNTQTDRESLRNLRGYYNQS
 EAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDIALNEDLRSWTAADTAAQIT
 QRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHE
 ATLCRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGE
 EQRYTCHVQHEGLPKPLTLRWEPSQSTVPIVGIVAGLAVLAVVIGAVVAAMCRR
 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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