

Product datasheet for TP310631

HLAB (HLA-B) (NM_005514) Human Recombinant Protein

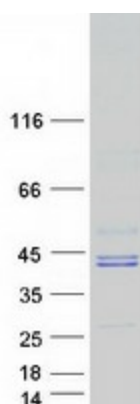
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human major histocompatibility complex, class I, B (HLA-B), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210631 protein sequence Red =Cloning site Green =Tags(s) MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPFISVGIVDDTQFVRFDSDAASPREE PRAPWIEQEGPEYWDNRNTQIFKTNTQTDRESLRNLRGYNNQSEAGSHTLQSMYGCDVGPDRLLRGHN QY AYDGKDIALNEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPK THVTHHPISDHEATLRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVWPSGEEQR YTCHVQHEGLPKPLTLRWEPSQSTVPIVGIVAGLAVLAVVIGAVVAVMCRRKSSGGKGGSSYSQAACS DSAQGSDVSLTA TR TRPLEQKLISEEDLA ANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	37.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_005505</u>


[View online »](#)

Locus ID:	3106
UniProt ID:	P01889
RefSeq Size:	1578
Cytogenetics:	6p21.33
RefSeq ORF:	1086
Synonyms:	AS; B-4901; HLAB
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Transmembrane
Protein Pathways:	Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis

Product images:



Coomassie blue staining of purified HLA-B protein (Cat# TP310631). The protein was produced from HEK293T cells transfected with HLA-B cDNA clone (Cat# [RC210631]) using MegaTran 2.0 (Cat# [TT210002]).