

#### OriGene Technologies, Inc.

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# Product datasheet for PH310631

#### HLAB (HLA-B) (NM\_005514) Human Mass Spec Standard

### **Product data:**

Mass Spec Standards	
HLA MS Standard C13 and N15-labeled recombinant protein (NP_005505)	
Human	
HEK293	
RC210631	
40.3 kDa	
<pre>&gt;RC210631 protein sequence Red=Cloning site Green=Tags(s)</pre>	
MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVGYVDDTQFVRFDSDAASPREE PRAPWIEQEGPEYWDRNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQY AYDGKDYIALNEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPK THVTHHPISDHEATLRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVPSGEEQR YTCHVQHEGLPKPLTLRWEPSSQSTVPIVGIVAGLAVLAVVVIGAVVAAVMCRRKSSGGKGGSYSQAACS DSAQGSDVSLTA	
TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
C-Myc/DDK	
> 80% as determined by SDS-PAGE and Coomassie blue staining	
>0.05 µg/µL as determined by microplate BCA method	
Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine	
25 mM Tris-HCl, 100 mM glycine, pH 7.3	
Store at -80°C. Avoid repeated freeze-thaw cycles.	
Stable for 3 months from receipt of products under proper storage and handling conditions.	
<u>NP 005505</u>	
1578	
1086	
AS; B-4901; HLAB	
3106	



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	HLAB (HLA-B) (NM_005514) Human Mass Spec Standard – PH310631		
UniProt ID:	<u>P01889, P03989, E5FQ95, P30480, P30461</u>		
Cytogenetics:	6p21.33		
Summary: HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule i heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin chain is anchored in the membrane. Class I molecules play a central role in the system by presenting peptides derived from the endoplasmic reticulum lumen expressed in nearly all cells. The heavy chain is approximately 45 kDa and its ge exons. Exon 1 encodes the leader peptide, exon 2 and 3 encode the alpha1 and domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exo the transmembrane region and exons 6 and 7 encode the cytoplasmic tail. Poly within exon 2 and exon 3 are responsible for the peptide binding specificity of molecule. Typing for these polymorphisms is routinely done for bone marrow a transplantation. Hundreds of HLA-B alleles have been described. [provided by]			
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:**

116 —	-
66 —	-
45 —	
35 —	-
25 —	-
18 —	-
14 -	-

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]).

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