

Product datasheet for **TP302892L**

HLA DOB (HLA-DOB) (NM_002120) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human major histocompatibility complex, class II, DO beta (HLA-DOB), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202892 protein sequence Red =Cloning site Green =Tags(s)

MGSGWVPWVWVALLVNLTRLDSSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVRFIFNLEEYVRFSDSDV
GMFVALTKLGQPDAEQWNSRLDLLERSRQAVDGVCRHNYRLGAPFTVGRKVQPEVTVPERTPLHGHNL
LHCSVTGFYPGDIKIKWFLNGQEERAGVMSTGPIRNGDWTFTVVMLEMTPELGHVYTCLVDHSSLLSPV
SVEWRAQSEYSWRKMLSGIAAFLGLIFLLVGIVQLRAQKGYVRTQMSGNEVSRAVLLPQSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	30.6 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_002111</u>
Locus ID:	3112



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UniProt ID: [P13765](#), [Q5QNS2](#)

RefSeq Size: 1388

Cytogenetics: 6p21.32

RefSeq ORF: 819

Synonyms: DOB; HLA_DOB

Summary: HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Protein Pathways: Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis

Product images:



Coomassie blue staining of purified HLA-DOB protein (Cat# [TP302892]). The protein was produced from HEK293T cells transfected with HLA-DOB cDNA clone (Cat# [RC202892]) using MegaTran 2.0 (Cat# [TT210002]).