

Recombinant Human HLA-DOB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HLA-DOB-6413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA MS Standard C13 and N15-labeled recombinant protein (NP_002111) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	30.8 kDa
AA Sequence	MGSGWVPWVVALLVNLRLDSSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVVR FIFNLEEYVRFDSDVGMFVALTKLGQPD AEQWNSRLDLLERSRQAVDGVCRHNYRL GAPFTVGRKVQPEVTVPERTPLLHQHNLHCSVTGFYPGDIKIKWFLNGQEERAG VMSTGPIRNGDWTFQTVVMLEMTPELGHVYTCLVDHSSLLSPVSVEWRAQSEYSW RKMLSGIAAFLGLIFLLVGIVIQLR AQKGYVRTQMSGNEVSRAVLLPQSCTRTRPLE

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HLA-DOB major histocompatibility complex, class II, DO beta [Homo sapiens (human)]
Official Symbol	HLA-DOB
Synonyms	HLA-DOB; major histocompatibility complex, class II, DO beta; HLA class II histocompatibility antigen, DO beta chain; MHC class II antigen DOB; DOB; FLJ57033;
Gene ID	3112
mRNA Refseq	NM_002120
Protein Refseq	NP_002111
MIM	600629

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UniProt ID**P13765****SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA