

Recombinant Human HLA-DOB, GST-tagged

Cat. No. HLA-DOB-13815H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-DOB protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-99a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	HLA-DOB major histocompatibility complex, class II, DO beta [Homo sapiens]
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
UniProt ID	P13765
Chromosome Location	6p21.3
Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Asthma, organism-specific biosystem; Asthma, conserved biosystem;
Function	MHC class II receptor activity;

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