# Recombinant Human HLA-DOB, GST-tagged

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

## SPECIFICATION

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| **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℃. Avoid repeated freezing and thawing cycles. |
| **Storage Buffer** | 1M PBS (58mM Na2HPO4,17mM NaH2PO4, 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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