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# **Recombinant human HLA-DOB protein**

Catalog Number: ATGP2683

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

27-224aa

#### UniProt No.

P13765

#### **NCBI Accession No.**

NP 002111

#### **Alternative Names**

Major histocompatibility complex class II DO beta, Major histocompatibility complex, class II, DO beta, DOB

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

25.2 kDa (222aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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.



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Recombinant human HLA-DOB protein, fused to His-tag at N-terminus, was expressed in E. coli.

# **Amino acid Sequence**

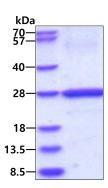
<MGSSHHHHHH SSGLVPRGSH MGSG>TDSPED FVIQAKADCY FTNGTEKVQF VVRFIFNLEE YVRFDSDVGM FVALTKLGQP DAEQWNSRLD LLERSRQAVD GVCRHNYRLG APFTVGRKVQ PEVTVYPERT PLLHQHNLLH CSVTGFYPGD IKIKWFLNGQ EERAGVMSTG PIRNGDWTFQ TVVMLEMTPE LGHVYTCLVD HSSLLSPVSV EWRAQSEYSW RK

#### **General References**

Naruse T.K., et al. (2002) Tissue Antigens. 59:512-519 Beck S., et al. (1996) J. Mol. Biol. 255:1-13

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

