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Product Information

MemDX™ Membrane Protein Human HLA-DOB (Major histocompatibility complex, class II, DO beta) for Antibody Discovery

Cat. No.: **MP0490J**
This product is for research use only and is not intended for diagnostic use.

This product is a 30.6 kDa Human HLA-DOB membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
HLA-DOB

Protein Length
Full-length

Protein Class
Transmembrane

Molecular Weight
30.6 kDa

TMD
1

Sequence
MGSGWVPWVVALLVNLTRLDSSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVVRFIFNLEEYVRFDSDV
GMFVALTKLGQPDAEQWNSRLDLLERSRQAVDGVCRHNYRLGAPFTVGRKVQPEVTVYPERTPLLHQHNL
LHCSVTGFYPGDIKIKWFLNGQEERAGVMSTGPIRNGDWTFQTVVMLEMTPELGHVYTCLVDHSSLLSPV
SVEWRAQSEYSWRKMLSGIAAFLLGLIFLLVGIVIQLRAQKGYVRTQMSGNEVSRAVLLPQSC

Product Description

Expression Systems
HEK293T

Tag
C-Myc/DDK

Form
Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

HLA-DOB

Full Name

Major histocompatibility complex, class II, DO beta

Introduction

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.

Alternative Names

DOB; HLA_DOB

Gene ID

3112

UniProt ID

P13765

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