

Product Information

MemDX™ Membrane Protein Human HLA-DOB (Major histocompatibility complex, class II, DO beta) Full Length

Cat. No.: **MPC2958K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HLA-DOB membrane protein expressed in HEK293. 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

Immunity

TMD

1

Sequence

MGSGWVPWVVALLVNLTRLDSMTQGTDSPEDFVIQAKADCYFTNGTEKV
QFVVRFIFNLEEYVRFDSVGMFVALTKLGQPD AEQWNSRLDLLERSRQA
VDGVCRHNYRLGAPFTVGRKVQPEVTVPERTPLLHQHLLHCSVTGFYP
GDIKIKWFLNGQEERAGVMSTGPIRNGDWTFTQTVVMLEMTPELGHVYTCL
VDHSSLLSPVSVEWRAQSEYSWRKMLSGIAAFLLGLIFLLVGIVQLRAQ
KGYVRTQMSGNEVSRAVLLPQSC

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

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

HLA-DOB; DOB; HLA_DOB; HLA class II histocompatibility antigen, DO beta chain; MHC class II antigen DOB; Major histocompatibility complex, class II, DO beta

Gene ID

[3112](#)

UniProt ID

[P13765](#)