

Product Information

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

Cat. No.: **MPC2929K**

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

This product is a made-to-order Human HLA-DMB 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-DMB

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MITFLPLLLGLSLGCTGAGGFVAHVESTCLDDAGTPKDFTYCISFNKDL
LTCWDPEENKMAPCEFGVLNSLANVLSQHLNQKDTLMQRLRNLQNCATH
TQPFWGSLTNRTRPPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWR
KNGKLVMPHSSAHKTAQPNGDWTYQTLSHLALTPSYGDTYTCVVEHIGAP
EPILRDWTPGLSPMQTLKVSVAVTLLGLGLIIFSLGVISWRRAGHSSYTP
LPGSNYSEGWHIS

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-DMB

Full Name

Major histocompatibility complex, class II, DM beta

Introduction

HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta (DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP (class II-associated invariant chain peptide) molecule from the peptide binding site. 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-DMB; RING7; D6S221E; HLA class II histocompatibility antigen, DM beta chain; MHC class II HLA-DMB; MHC class II antigen DMB; MHC class II antigen HLA-DM beta chain; class II histocompatibility antigen, M beta chain; really interesting new gene 7 protein; Major histocompatibility complex, class II, DM beta

Gene ID

[3109](#)

UniProt ID

[P28068](#)