

Product Information

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

Cat. No.: **MPC2653K**

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

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

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQNHTFLHTVYC
QDGSPSVGLSEAYDEDQLFFFDQSQNTVRPRLPEFADWAQEQGDAPAILF
DKEFCEWMIQQIGPKLDGKIPVSRGFPIAEVFTLKPLEFGKPNTLVCFVS
NLFPMLTVNWHDHSPVEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIF
SCIVTHEIDRYTAIAYWVPRNALPSDLLENVLCGVAFGLGVLGIIIVGIVL
IIYFRKPCSGD

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-DMA

Full Name

Major histocompatibility complex, class II, DM alpha

Introduction

HLA-DMA belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta chain (DMB), 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 molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail.

Alternative Names

HLA-DMA; DMA; HLADM; RING6; D6S222E; HLA class II histocompatibility antigen, DM alpha chain; MHC class II antigen DMA; class II histocompatibility antigen, M alpha chain; really interesting new gene 6 protein; Major histocompatibility complex, class II, DM alpha

Gene ID

[3108](#)

UniProt ID

[P28067](#)