

# Product Information

## **MemDX™ Membrane Protein Human HLA-DQA2 (Major histocompatibility complex, class II, DQ alpha 2) Full Length**

Cat. No.: **MPC4074K**

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

This product is a made-to-order Human HLA-DQA2 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-DQA2

#### Protein Length

Full length

#### Protein Class

Immunity

#### TMD

1

#### Sequence

MILNKALLLGALALTAVMSPCGGEDIVADHVASYG VNFYQSHGPSGQYTH  
EFDGDEEFYVDLETKETVWQLPMFSKFISFDPQSALRNMAVGKHTLEFMM  
RQSNSTAATNEVPEVTVF SKFPVTLGQPNTLICLDNI FPPVVNITWLSN  
GHSVTEGVSETSF LSKSDHSFFKISYLTFLPSADEIYDCKVEHWGLDEPL  
LKHWEPEIPAPMSELTETLV CALGLSVGLMGIVVGTVFIIQGLRSVGASR  
HQGLL

### 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-DQA2

**Full Name**

Major histocompatibility complex, class II, DQ alpha 2

**Introduction**

This gene belongs to the HLA class II alpha chain family. The encoded protein forms a heterodimer with a class II beta chain. It is located in intracellular vesicles and 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 (B lymphocytes, dendritic cells, macrophages) and are used to present antigenic peptides on the cell surface to be recognized by CD4 T-cells.

**Alternative Names**

HLA-DQA2; HLA-DCA; HLA-DXA; HLADQA2; DC-alpha; DX-ALPHA; HLA class II histocompatibility antigen, DQ alpha 2 chain; DC-1 alpha chain; DX alpha chain; HLA class II histocompatibility antigen, DQ alpha 1 chain; HLA class II histocompatibility antigen, DQ(6) alpha chain; MHC class II DQA1; MHC class II DQA2; MHC class II antigen; Major histocompatibility complex, class II, DQ alpha 2

**Gene ID**

[3118](#)

**UniProt ID**

[P01906](#)