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Product Information

MemDX™ Membrane Protein Human HLA-DQB2 (Major histocompatibility complex, class II, DQ beta 2) Full Length

Cat. No.: **MPC4162K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HLA-DQB2 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-DQB2

Protein Length
Full length

Protein Class
Immunity

TMD
1

Sequence
MSWKMALQIPGGFWAAAVTVMLVMLSTPVAEARDFPKDFLVQFKGMCYFT
NGTERVRGVARYIYNREEYGRFDSDVGEFQAVTELGRSIEDWNNYKDFLE
QERAAVDKVCRHNYEAELRTTLQRQVEPTVTISPSRTEALNHHNLLVCSV
TDFYPAQIKVRWFRNDQEETAGVVSTSLIRNGDWTFQILVMLEITPQRGD
IYTCQVEHPSLQSPITVEWRAQSESAQSKMLSGIGGFVLGLIFLGLGLII
RHRGQKGPRGPPPAGLLH

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-DQB2

Full Name

Major histocompatibility complex, class II, DQ beta 2

Introduction

HLA-DQB2 belongs to the family of HLA class II beta chain paralogs. Class II molecules are heterodimers consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. They play a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). Polymorphisms in the alpha and beta chains specify the peptide binding specificity, and typing for these polymorphisms is routinely done for bone marrow transplantation. However this gene, HLA-DQB2, is not routinely typed, as it is not thought to have an effect on transplantation. There is conflicting evidence in the literature and public sequence databases for the protein-coding capacity of HLA-DQB2. Because there is evidence of transcription and an intact ORF, HLA-DQB2 is represented in Entrez Gene and in RefSeq as a protein-coding locus.

Alternative Names

HLA-DQB2; DQB2; HLA-DXB; HLA-DQB1; HLA class II histocompatibility antigen, DQ beta 2 chain; DV19.1 (major histocompatibility complex, class II, DQ beta 2 (HLA-DXB)); HLA class II histocompatibility antigen, DX beta chain; MHC class II antigen DQB2; Major histocompatibility complex, class II, DQ beta 2

Gene ID

3120

UniProt ID

P05538

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