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Product Information

MemDX™ Membrane Protein Human HLA-DPB1 (Major histocompatibility complex, class II, DP beta 1) Full Length

Cat. No.: **MPC2917K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HLA-DPB1 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-DPB1

Protein Length
Full length

Protein Class
Immunity

TMD
1

Sequence
MMVLQVSAAPRTVALTALLMVLLTSVVQGRATPENYLFQGRQECYAFNGT
QRFLERYIYNREEFARFDSDVGEFRAVTELGRPAAEYWNSQKDILEEKRA
VPDRMCRHNYELGGPMTLQRRVQPRVNVSPSKKGPLQHHNLLVCHVTDFY
PGSIQVRWFLNGQEETAGVVSTNLIRNGDWTFQILVMLEMTPQQGDVYTC
QVEHTSLDSPVTVEWKAQSDSARSKTLTGAGGFVLGLIICGVGIFMHRRS
KKVQRGSA

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-DPB1

Full Name

Major histocompatibility complex, class II, DP beta 1

Introduction

HLA-DPB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta chain (DPB), both anchored in the membrane. It plays 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). 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. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules.

Alternative Names

HLA-DPB1; DPB1; HLA-DP; HLA-DPB; HLA-DP1B; HLA class II histocompatibility antigen, DP beta 1 chain; HLA class II histocompatibility antigen, DP(W4) beta chain; HLA-DP histocompatibility type, beta-1 subunit; MHC HLA DPB1; MHC class II HLA-DP-beta-1; MHC class II antigen DPB1; Major histocompatibility complex, class II, DP beta 1

Gene ID

3115

UniProt ID

P04440

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