

Product Information

MemDX™ Membrane Protein Human HLA-DRB4 (Major histocompatibility complex, class II, DR beta 4) Full Length

Cat. No.: **MPC2980K**

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

This product is a made-to-order Human HLA-DRB4 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-DRB4

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MVCLKLPGGSCMAALTVTLTVLSSPLALAGDTQPRFLEQAKCECHFLNGT
ERVWNLIRIYIYNQEEYARYNSDLGEYQAVTELGRPDAEYWNSQKDLLERR
RAEVDTYCRNYGVVESFTVQRRVQPKVTVYPSKTQPLQHHNLLVCSVNG
FYPGSIEVRWFRNGQEEKAGVVSTGLIQNGDWTFTLVMLETVPRSGEVY
TCQVEHPSMMSPLTVQWSARSESAQSKMLSGVGGFVLGLLFLGTGLFIYF
RNQKGHSGLQPTGLLS

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-DRB4

Full Name

Major histocompatibility complex, class II, DR beta 4

Introduction

HLA-DRB4 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DRA) and a beta (DRB) chain, 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. 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 DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. There are multiple pseudogenes of this gene.

Alternative Names

HLA-DRB4; DR4; DRB4; HLA-DR4B; HLA-DRB4*; HLA class II histocompatibility antigen, DR beta 4 chain; MHC class II antigen DRB4; Major histocompatibility complex, class II, DR beta 4

Gene ID

[3126](#)

UniProt ID

[P13762](#)