

Product Information

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

Cat. No.: **MPC2647K**

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

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

Protein Length

Full length

Protein Class

Immunity

TMD

1

Sequence

MAISGVPLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFD
FDGDEIFHVDMAKKETVWRLEEFGRFASFEAQGALANIAVDKANLEIMTK
RSNYTPITNVPPEVTLTNSPVELREPNVLCIDKFTPPVVNVTLWRNG
KPVTTGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLL
KHWEFDAPSPLPETTENVVCALGLTVGLVGIIIGTIFIIGLRKSNAER
RGPL

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-DRA

Full Name

Major histocompatibility complex, class II, DR alpha

Introduction

HLA-DRA is one of the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha and a beta chain, both anchored in the membrane. This molecule is expressed on the surface of various antigen presenting cells such as B lymphocytes, dendritic cells, and monocytes/macrophages, and plays a central role in the immune system and response by presenting peptides derived from extracellular proteins, in particular, pathogen-derived peptides to T cells. The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. DRA does not have polymorphisms in the peptide binding part and acts as the sole alpha chain for DRB1, DRB3, DRB4 and DRB5.

Alternative Names

HLA-DRA; HLA-DRA1; HLA class II histocompatibility antigen, DR alpha chain; MHC class II antigen DRA; histocompatibility antigen HLA-DR alpha; Major histocompatibility complex, class II, DR alpha

Gene ID

[3122](#)

UniProt ID

[P01903](#)