

Product Information

MemDX™ Membrane Protein Human HLA-DRA (Major histocompatibility complex, class II, DR alpha) expressed in *E.coli* for Antibody Discovery

Cat. No.: **MP1422J**

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

This product is a 29.7 kDa Human HLA-DRA membrane protein expressed in *E.coli*. 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

Partial (28-254aa)

Protein Class

Human Leukocyte Antigen

Molecular Weight

29.7 kDa

TMD

1

Sequence

EEHVIIQAEFYLNPDQSGEFMFDFDGDEIFHVDMAKKETVWRLEEFGRFASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVT

Product Description

Expression Systems

E.coli

Tag

N-6xHis

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

Purity

>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Store at +4°C for up to one week or several months at -80°C

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

DASS-397D15.1; DR alpha chain; DR alpha chain precursor; DRA_HUMAN; DRB1; DRB4; FLJ51114; Histocompatibility antigen HLA DR alpha; Histocompatibility antigen HLA-DR alpha; HLA class II histocompatibility antigen; HLA class II histocompatibility antigen DR alpha chain; HLA DR1B; HLA DR3B; HLA DRA; HLA DRA1; HLA DRB1; HLA DRB3; HLA DRB4; HLA DRB5; HLA-DR histocompatibility type; HLA-DRA; HLADR4B; HLADRA1; HLADRB; Major histocompatibility complex class II DR alpha; Major histocompatibility complex class II DR beta 1; Major histocompatibility complex class II DR beta 3; Major histocompatibility complex class II DR beta 4; Major histocompatibility complex class II DR beta 5; MGC117330; MHC cell surface glycoprotein; MHC class II antigen DRA; MHC II; MLRW; OTTHUMP00000029406; OTTHUMP00000029407

Gene ID

[3122](#)

UniProt ID

[P01903](#)