

Product Information

MemDX™ Membrane Protein Human RHD (Rh blood group D antigen) Full Length

Cat. No.: **MPC1019K**

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

This product is a 45.2 kDa Human RHD 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

RHD

Protein Length

Full length

Protein Class

Blood group antigen

Molecular Weight

45.2 kDa

TMD

11

Sequence

MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASYQV
GQDLTVMAAIGLGFLTSSFRRHSWSSVAFNLFMLALGVQWAILLDGFLSQ
FPSGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQLVVMVLVEVTAL
GNLRMVISNIFNTDYHMNMHIIYVFAAYFGLSVAVWCLPKPLPEGTEKDQ
TATIPSLSAMLGALFLWMFWPSFNSALLRSPIERKNAVFNTYYAVAVSVV
TAISGSSLAHPQGKISKTYVHSAVLGGVAVGTSCHLIPSPWLAMVLGLV
AGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIIVLLVLD
TVGAGNGMIGFQVLLSIGELSLAIVIALMSGLLTGLLLNLKIWKAPHEAK
YFDDQVFWKFPHLAVGF

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

RHD

Full Name

Rh blood group D antigen

Introduction

The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

RHD; RH; Rh4; RH30; RhII; RhPI; DIIIc; RHCED; RHDel; RHPII; RhDCw; CD240D; RHXIII; RHDVA(TT); RhK562-II; blood group Rh(D) polypeptide; D antigen (DCS); RH polypeptide 2; Rh blood group C antigen; Rh blood group CcEe antigen; Rh blood group D antigen weak D type 160; Rh blood group antigen Evans; Rh blood group, D antigen; RhD antigen; RhD blood group antigen; RhD polypeptide; Rhesus D blood group protein; Rhesus blood group D antigen allele DIII type 7; Rhesus blood group antigen D; Rhesus system D polypeptide; blood group antigen D; blood group protein RHD; rhesus D antigen; truncated Rh blood group D antigen; truncated RhD antigen; truncated rhesus D; truncated rhesus blood group D antigen; Rh blood group D antigen

Gene ID

[6007](#)

UniProt ID

[Q02161](#)