

Product Information

Recombinant Anti-Human RHD Antibody Fab Fragment

Cat. No.: **MOM-18256-F(P)**

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

Product Overview

Recombinant Human Antibody Fab Fragment is against Human RHD, expressed in E. coli

Antigen Description

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.

Target

RHD

Immunogen

Tissue / cell preparation (Human) - erythrocytes.

Source

Human

Species Reactivity

Human

Type

Fab Fragment based on Human IgG1 - kappa

Expression Host

E. coli

Predicted N terminal

H chain: DVQLVES; L Chain: ATRMTQS

Purity

>95.0% as determined by analysis by RP-HPLC.

Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

Storage

Store at -20°C for long-term storage. Store at 2-8°C for up to one month. Avoid freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[RHD Rh blood group, D antigen \[Homo sapiens \]](#)

Official Symbol

RHD

Synonyms

RHD; Rh blood group, D antigen; RH, Rhesus blood group, D antigen; blood group Rh(D) polypeptide; CD240D; DIILc; Rh4; Rh30a; RhII; RhPI; D antigen (DCS); RH polypeptide 2; rhesus D antigen; Rhesus system D polypeptide; Rh blood group antigen Evans; Rhesus blood group D antigen allele DIIL type 7; RH; RH30; RHCED; RHDel; RHPII; RhDCw; RHXIII; RHDVA(TT); RhK562-II; MGC165007;

Gene ID

[6007](#)

mRNA Refseq

[NM_001127691](#)

Protein Refseq

[NP_001121163](#)

MIM

[111680](#)

UniProt ID

Q02161

Chromosome Location

1p36.11