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Product Information

MemDX™ Antibody Discovery - Human CD46 (35-328) Membrane Protein, Partial, -His tag

Cat. No.: **MP1276F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human CD46 (35-328). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
CD46

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 33.6 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Cys 35 - Asp 328 (Accession # AAH30594.1).

Product Description

Application
SDS-PAGE

Expression Systems
HEK293

Tag
His tag at the C-terminus

Protein Format
Soluble

Form
LYOPH

Reconstitution
Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>90% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

CD46

Full Name

CD46 molecule

Introduction

The protein encoded by this gene is a type I membrane protein and is a regulatory part of the complement system. The encoded protein has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. In addition, the encoded protein can act as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic Neisseria. Finally, the protein encoded by this gene may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations at this locus have been associated with susceptibility to hemolytic uremic syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.

Alternative Names

MCP; TLX; AHUS2; MIC10; TRA2.10; membrane cofactor protein; CD46 antigen, complement regulatory protein; CD46 molecule, complement regulatory protein; antigen identified by monoclonal antibody TRA-2-10; complement membrane cofactor protein; measles virus receptor; membrane cofactor protein (CD46, trophoblast-lymphocyte cross-reactive antigen); trophoblast leucocyte common antigen; trophoblast leukocyte common antigen; trophoblast-lymphocyte cross-reactive antigen

Gene ID

4179

UniProt ID

P15529