

Product Information

MemDX™ Membrane Protein Human CD46 (CD46 molecule) Expressed *in vitro* *E.coli* expression system, Full Length of Mature Protein

Cat. No.: **MPX3849K**

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

This product is a Human CD46 membrane protein expressed *in vitro* *E.coli* expression system. 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

CD46

Protein Length

Full Length of Mature Protein

Protein Class

Receptor

TMD

1

Sequence

CEEPPTFEAMELIGKPKPYEIGERVDYKCKKGYFYIPPLATHHTICDRNHTWLPVSDDACYRETCPYIRDPLNGQAVPANGTYEFGY

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

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

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

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

CD46; 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; CD46 molecule

Gene ID

[4179](#)

UniProt ID

[P15529](#)