

# Product Information

## MemDX™ Membrane Protein Human CD46 (CD46 molecule) Full Length

Cat. No.: **MPC2829K**

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

This product is a made-to-order Human CD46 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

CD46

#### Protein Length

Full length

#### Protein Class

Receptor; Immunity

#### TMD

1

#### Sequence

MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFSDACEEPPTFEAMELIGKP  
KPYEIGERVDYKCKKGYFYIPPLATHICDRNHTWLPVSDDACYRETC  
YIRDPLNGQAVPANGTYEFGYQMHFICNEGYYLIGEEILYCEKGSVAIW  
SGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDVAVTYSCTPAPGPD  
SLIGESTIYCGDNSVWSRAAPECKVVKCRFPVVENGKQISGFGKKFYKA  
TVMFECDKGFYLDGSDTIVCDSNSTWDPPVPKCLKVLPPSSTKPPALSHS  
VSTSSTTKSPASSASGPRPTYKPPVSNYPGYPKPEEGILDSDLVVVI  
VIAIVVGVAICVVPYRYLQRRKKKGTYLTDETHREVKFTSL

### Product Description

#### Expression Systems

HEK293

#### Tag

Based on specific requirements

#### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°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](#)