

# Recombinant Full Length Human CD46 Protein

**Cat. No.** CD46-2984HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Human CD46 full-length ORF (NP_722548.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 94 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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. [provided by RefSeq, Jun 2010]</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 42.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MEPPGRRECPFPSWRFPGLLLAAMVLLLYSFSDACEEPPTFEAMELIGKPKPYEIG<br>ERVDYKCKKGYFYIPPLATHICDRNHTWLPVSDDACYRETCPYIRDPLNGQAVPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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GTYEFQYQMHFICNEGYYLIGEEILYCELKGSVAIWSGKPPICEKVLCTPPPKIKNGK  
 HTFSEVEVFEYLDVAVTYSKDPAPGDPFSLIGESTIYCGDNSVWSRAAPECKVVKCR  
 FPVVENGKQISGFGKKFYKATVMFECDKGFYLDGSDTIVCDSNSTWDPPVPKCLK  
 VSTSSTTKSPASSASGPRPTYKPPVSNYPGYPKPEEGILDSLVDVWVIAVIVIAIVGV  
 VICVVPYRYLQRRKKKGKADGGAEYATYQTKSTTPAEQRG

**Applications**  
 Antibody Production  
 Functional Study  
 Compound Screening

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

## GENE INFORMATION

**Gene Name** CD46 CD46 molecule, complement regulatory protein [ Homo sapiens ]

**Official Symbol** CD46

**Synonyms** CD46; CD46 molecule, complement regulatory protein; antigen identified by monoclonal TRA 2 10, CD46 antigen, complement regulatory protein, MCP, membrane cofactor protein (CD46, trophoblast lymphocyte cross reactive antigen), MIC10; membrane cofactor protein; MGC26544; TLX; TRA2.10; measles virus receptor; complement membrane cofactor protein; trophoblast leucocyte common antigen; trophoblast leukocyte common antigen; CD46 antigen, complement regulatory protein; trophoblast-lymphocyte cross-reactive antigen; antigen identified by monoclonal TRA-2-10; membrane cofactor protein (CD46, trophoblast-lymphocyte cross-reactive antigen); MCP; AHUS2; MIC10;

**Gene ID** 4179

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|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_002389</a> |
| Protein Refseq | <a href="#">NP_002380</a> |
| MIM            | <a href="#">120920</a>    |
| UniProt ID     | <a href="#">P15529</a>    |

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