

Membrane Cofactor (CD46) Active Protein | CD46 active protein

Recombinant Human Membrane Cofactor Protein (CD46)

CATALOG #
AAA243727

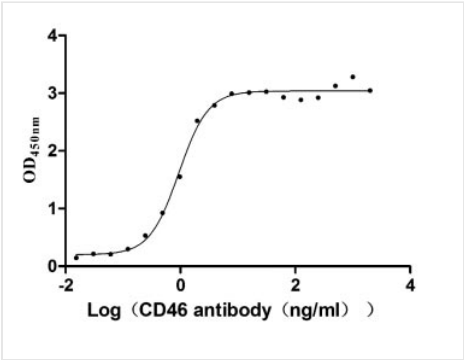
HOST
Mammalian cell

PRODUCT SYNONYMS

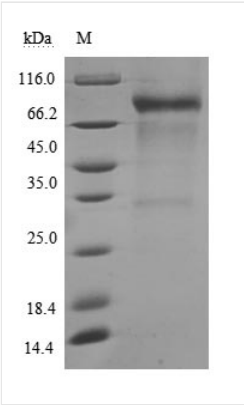
Membrane Cofactor (CD46); Recombinant Human Membrane Cofactor Protein (CD46); TLX; Trophoblast leukocyte common antigen; CD46; CD46 active protein

PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4.
Sequence Positions	35-328aa; Partial
Sequence	CEEPPTFEAM ELIGKPKPYE EIGERVDYKC KKGYYFIPPL ATHTICDRNH TWLPVSDDAC YRETCPIYRD PLNGQAVPAN GTYEFQYQMH FICNEGYLI GEEILYCELK GSAIWSGKP PICEKVLCTP PPKIKNGKHT FSEVEVFEYL DAVTYSDDPA PGDPFSLIG ESTIYCGDNS VWSRAAPECK VVKCRFPVVE NGKQISGFGK KFYYKATVMF ECDKGFYLDG SDTIVCDSNS TWDPVPKCL KVLPPSSTKP PALSHSVSTS STTKSPASSA SGPRPTYKPP VSNY
Sequence Length	392
Species	Human
Tag	C-terminal FC-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD46 at 2 ug/ml can bind Anti-CD46 rabbit monoclonal antibody, the EC50 of human CD46 protein is 0.8333-1.054 ng/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.



Bioactivity



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for CD46 active protein	Acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue. May be involved in the fusion of the spermatozoa with the oocyte during fertilization. Also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. T-regulatory 1 cells suppress immune responses by secreting interleukin-10, and therefore are thought to prevent autoimmunity. (Microbial infection) A number of viral and bacterial pathogens seem to bind MCP in order to exploit its immune regulation property and directly induce an immunosuppressive phenotype in T-cells. (Microbial infection) Acts as a receptor for Adenovirus subgroup B2 and Ad3. (Microbial infection) Acts as a receptor for cultured Measles virus. (Microbial infection) Acts as a receptor for Herpesvirus 6/HHV-6. (Microbial infection) May act as a receptor for pathogenic bacteria Neisseria and Streptococcus pyogenes (PubMed:7708671, PubMed:9379894, PubMed:11260136, PubMed:11971006).
Product Categories/Family for CD46 active protein	Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	41019474
NCBI GeneID	4179
UniProt Accession #	P15529
Molecular Weight	61.6 kDa
NCBI Official Full Name	Membrane cofactor protein
NCBI Official Synonym Full Names	CD46 molecule
NCBI Official Symbol	CD46
NCBI Official Synonym Symbols	MCP; TLX; AHUS2; MIC10; TRA2.10
NCBI Protein Information	membrane cofactor protein
UniProt Protein Name	Membrane cofactor protein
UniProt Gene Name	CD46
UniProt Synonym Gene Names	MCP; MIC10
UniProt Entry Name	MCP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mammalian-cell-active-protein/membrane-cofactor-cd46/243727>