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Datasheet for ABIN1096326
CD46 Protein (CD46) (AA 35-328) (His tag)

Overview

Quantity:	50 µg
Target:	CD46
Protein Characteristics:	AA 35-328
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD46 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD46/MCP (C-6His)
Sequence:	CEEPPTFEAM ELIGKPKPYY EIGERVDYKC KKGYYFIPPL ATHTICDRNH TWLPVSDDAC YRETCPIYIRD PLNGQAVPAN GTYEFQYQMH FICNEGYILI GEEILYCELK GSVAIWSGKP PICEKVLCTP PPKIKNGKHT FSEVEVFEYL DAVTYSCDPA PGPDPFSLIG ESTIYCGDNS VWSRAAPECK VVKCRFPVVE NGKQISGFGK KFYKATVMF ECDKGFYLDG SDTIVCDSNS TWDPPVPKCL KVSTSSTTKS PASSASGPRP TYKPPVSNYP GYPKPEEGIL DSLDLDDHHHH HH
Characteristics:	Recombinant Human CD46 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Cys35-Asp328) of Human CD46 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CD46
Alternative Name:	cd46 (CD46 Products)
Sub Type:	Fusionprotein
Background:	<p>CD46 is a type I membrane protein containing four Sushi domains. CD46 is expressed by all cells except erythrocytes. CD46 has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. It may be involved in the fusion of the spermatozoa with the oocyte during fertilization. CD46 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. A number of viral and bacterial pathogens exploit this property and directly induce an immunosuppressive phenotype in T-cells by binding to CD46. CD46 acts as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic Neisseria.</p> <p>Alternative Names: Membrane Cofactor Protein, TLX, Trophoblast Leukocyte Common Antigen, CD46, MCP, MIC10</p>
Molecular Weight:	33.83 kDa
UniProt:	P15529
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months