

32-7295: Recombinant Human CD46/MCP (C-6His)

Gene : CD46
Gene ID : 4179
Uniprot ID : P15529

Description

Source: Human Cells.
MW :33.83kD.

Recombinant Human CD46 is produced by our Mammalian expression system and the target gene encoding Cys35-Asp328 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Storage condition : 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.
Amino Acid : CEEPTFEAMELIGKPKPYEIGERVVDYKCKKGYFYIPPLATHHTICDRNHTWLPVSDDACRETCPYIRDPLNGQA
VPANGTYEFGYQMHFICNEGYLLIGEEILYCELKGSVAIWSGKPPICEKVLCTPPPKIKNGKHTFSEVEVFEYLDVA
TYSCDPAPGDPFSLIGESTIYCGDNSVWSRAAPECKVVKCRFPVVENGGKQISGFGKFFYKATVMFECDKGFY
LDGSDTIVCDSNSTWDPPVPKCLKVSTSSSTTKSPASSASGPRPTYKPPVSNYPGYKPEEGILDSLDDHHHHH
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Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.