

Recombinant Human CD6 Protein, C-His-tagged

Cat. No. CD6-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD6 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	T cell differentiation antigen CD6 is a cell adhesion molecule expressed on immature thymocytes and mature T cells, and has also been detected on a subset of B cells and NK cells within the immune system. CD6 mediates cell-cell interactions through its binding partner CD166/ALCAM, and contributes to the formation and maturation of the immunological synapse. CD6 functions as a co-stimulatory receptor, promoting T cell activation and proliferation through the TCR/CD3 complex signaling cascade. Studies have shown CD6 can be glycosylated, hyperphosphorylated on serine and threonine residues, and phosphorylated on tyrosine residues, each of which can differentially effect the function and signaling of this molecule. CD6 also functions as a calcium-dependent pattern receptor that binds and aggregates Gram-positive and Gram-negative bacteria. In response to lipopolysaccharide, CD6 mediates activation of the inflammatory response and secretion of pro-inflammatory cytokines.
Molecular Mass	~42 kDa
AA Sequence	HPSPAPPDQLNTSSAESELWEPGERLPVRLTNGSSSSCSGTVEVRLEASWEPACGA LWDSRAAEAVCRALGCGGAEEAASQLAPPTPELPPPPAAGNTSVAANATLAGAPALL CSGAEWRLCEVVEHACRSDGRRARVTCAENRALRLVDGGGACAGRVEMLEHGEW

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GSVCDDTDWLEDAHVVCRLGCGWAVQALPGLHFTPGRGPIHRDQVNCSGAEAY
 LWDCPGLPGQHYCGHKEDAGAVCSEHQSWRLTGGADRCEGQVEVHFRGVWNTV
 CDSEWYPSEAKVLCQSLGCGTAVERPKGLPHSLSGRMYYSCNGEELTSLNCSWRF
 NNSNLCSQSLAARVLCASRSLHNLSTPEVPASVQTVTIESSVTVKIENKESRELML

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CD6 CD6 molecule [Homo sapiens (human)]

Official Symbol

CD6

Synonyms

CD6; CD6 molecule; CD6 antigen; T-cell differentiation antigen CD6; Tp120; T12; TP120; FLJ44171;

Gene ID

923

mRNA Refseq

NM_001254750

Protein Refseq

NP_001241679

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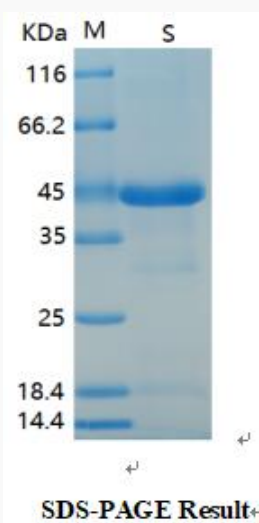
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MIM 186720

UniProt ID P30203

SDS-PAGE



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