

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	<p>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.</p>
Molecular Mass	~42 kDa
AA Sequence	<p>HPSPAPPDQLNTSSAESELWEPGERLPVRLTNGSSSSCSGTVEVRLEASWEPACGA LWDSRAAEAVCRALGCGGAEAAASQLAPPTPELPPPPAAGNTSVAANATLAGAPALL CSGAEWRLCEVVEHACRSDGRRARVTCAENRALRLVDGGGACAGRVEMLEHGEW</p>

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GSVCDDTDWLEDAHVVCRQLGCGWAVQALPGLHFTPGRGPIHRDQVNCSGAEAY
 LWDCPGLPGQHHCYCGHKEDAGAVCSEHQSWRLTGGADRCEGQVEVHFRGVWNTV
 CDSEWYPSEAKVLCQSLGCGTAVERPKGLPHSLSGRMYYSCNGEELTSLNCSWRF
 NNSNLCSQSLAARVLCASRSLHNLSTPEVPASVQTVTISSVTVKIENKESRELML

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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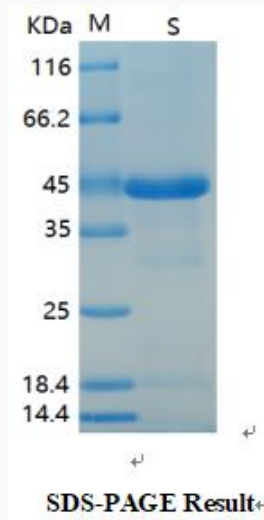
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MIM 186720

UniProt ID P30203

SDS-PAGE



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