

Active Recombinant Cynomolgus CD6 Protein, His Tagged

Cat. No. CD6-11214C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus CD6 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA His 18-Leu 399 (Accession # XP_005577746.1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: His 18
Species	Cynomolgus
Source	HEK293
ProteinLength	18-399 aa
Description	CD6 (Cluster of Differentiation 6) is a cell surface glycoprotein that is involved in T cell activation and a member of the scavenger receptor cysteine rich protein superfamily (SRCRSF). CD6 is expressed at low levels on immature thymocytes and at high levels on mature thymocytes. The majority of peripheral blood T cells, a subset of B cells, and a subset of neuronal cells express CD6. CD6 appears to play a role as both a costimulatory molecule in T cell activation and as an adhesion receptor. Studies demonstrating a mitogenic effect for T cells with some CD6 specific monoclonal antibodies, in conjunction with either accessory cells or PMA and anti-CD2 mAb, support the concept of CD6 as a co stimulatory molecule.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human ALCAM, Fc Tag at 5 µg/mL (100 µL/well) can bind Cynomolgus CD6 Protein, His Tag with a linear range of 0.02-0.625 µg/mL.

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Molecular Mass	The protein has a calculated MW of 42.8 kDa. The protein migrates as 55-80 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD6 CD6 molecule [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CD6
Synonyms	CD6; CD6 molecule; T-cell differentiation antigen CD6
Gene ID	102143944
mRNA Refseq	XM_005577689
Protein Refseq	XP_005577746

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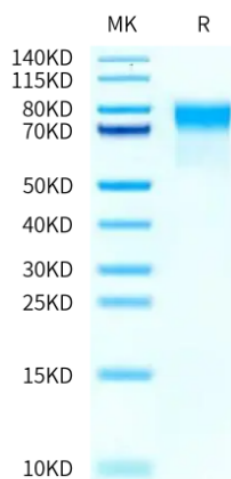
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UniProt ID

G7PPY8

SDS-PAGE



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