

Active Recombinant Rhesus macaque CD4 Protein, His&Avi tagged, Biotinylated

Cat. No. CD4-11191R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Rhesus macaque CD4, His, Avi tag is expressed from human 293 cells (HEK293). It contains AA Lys 26-Trp 390 (Accession # G7N5T8-1). This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. Predicted N-terminus: Lys 26
Species	Rhesus macaque
Source	HEK293
ProteinLength	26-390 aa
Conjugation/Label	Biotin
Description	T-cell surface glycoprotein CD4 is also known as T-cell surface antigen T4/Leu-3. CD4 contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CD4 is accessory protein for MHC class-II antigen/T-cell receptor interaction. CD4 induces the aggregation of lipid rafts. CD4 is a primary receptor used by HIV-1 to gain entry into host T cells. HIV infection leads to a progressive reduction of the number of T cells possessing CD4 receptors. Therefore, medical professionals refer to the CD4 count to decide when to begin treatment for HIV-infected patients.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

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Specificity	Protein Ratio: Passed as determined by the HABA assay/binding ELISA.
Bio-activity	Immobilized Anti-CD4 Antibody (Ibalizumab-IgG4) at 1 µg/mL (100 µL/well) can bind Biotinylated Rhesus macaque CD4, His, Avi tag with a linear range of 0.5-16 ng/mL.
Molecular Mass	The protein has a calculated MW of 44.0 kDa. The protein migrates as 52-58 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity	>95% as determined by SDS-PAGE. >90% 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	CD4 CD4 molecule [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; T-cell surface glycoprotein CD4; CD4 antigen; T-cell surface antigen T4/Leu-3
Gene ID	713807
mRNA Refseq	NM_001042662

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Protein Refseq	NP_001036127
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UniProt ID	G7N5T8
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