

Active Recombinant Rhesus Macaque CD4 Homodimer Protein, His tagged

Cat. No. CD4-19R Lot. No. (See product label)

SPECIFICATION

Product Overview	CD4 dimer protein contains a CD4 extracellular domain (UniProt# P16003) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Rhesus Macaque
Source	HEK293T
ProteinLength	26-396 aa
Description	<p>CD4 is Type 1 integral membrane glycoprotein protein on a T cell surface, also known as known as T-cell surface antigen T4/Leu-3. CD4 contains an extracellular domain, a transmembrane domain and a cytoplasmic domain. The extracellular domain has 4 immunoglobulin-like (Ig-like) domains: one Ig-like V-type domain and three Ig-like C2-type domains. The CD4 extracellular domain is responsible for MHC class-II antigen/T-cell receptor interaction and T cell activation. CD4 is also known as interleukin 16 receptor (IL16R). The IL16 cytokine binds CD4 to activate a downstream signaling cascade. CD4 is also the primary receptor for the human immunodeficiency virus (HIV) envelope glycoprotein gp120 to mediate HIV infection and entry into host T cells, as the underlying cause of acquired immune deficiency syndrome (AIDS). Rhesus macaque CD4 is a species-specific tool essential for preclinical studies, basic research, and translational research in cancer immunotherapy.</p>

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Molecular Mass	98 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for CD4-specific antibody binding assays. Suggested Applications: SPR & BLI for CD4-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

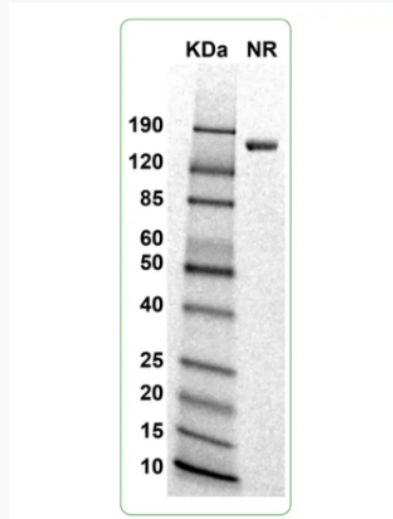
Gene Name	CD4 CD4 molecule [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; T-cell surface glycoprotein CD4; CD4 antigen; T-cell surface antigen T4/Leu-3
Gene ID	713807
mRNA Refseq	NM_001042662
Protein Refseq	NP_001036127
UniProt ID	P16003

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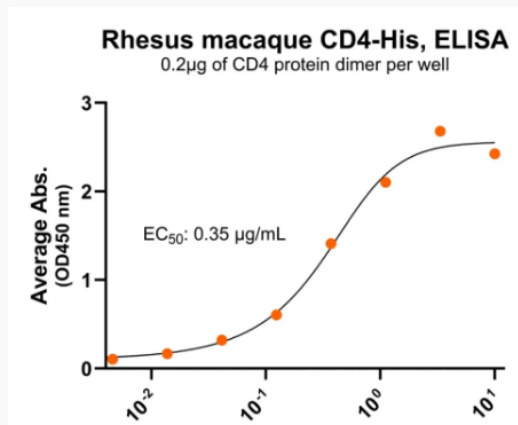
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SDS-PAGE



MW: Molecular Weight marker reduced condition NR: CD4 dimer under non-reduced condition

Bioactivity-Antibody Binding



Immobilized Rhesus macaque CD4 protein dimer, His Tag at 2 µg/mL (100 µL/well) can bind anti-Rhesus macaque CD4 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 0.18-0.71 µg/mL (QC tested).

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