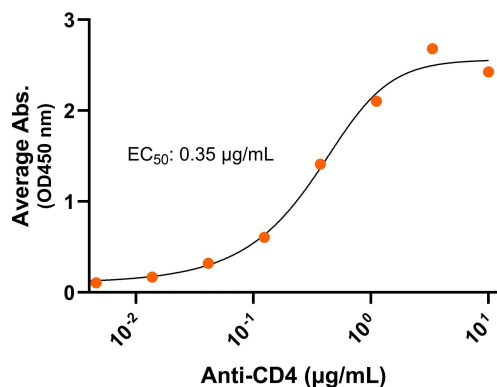


## Bioactivity – Antibody Binding

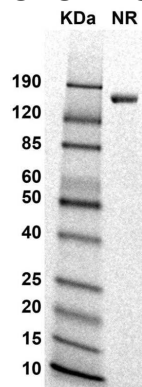
### Rhesus macaque CD4-His, ELISA

0.2 µg of CD4 protein dimer per well



Immobilized Rhesus macaque CD4 protein dimer, His Tag (Cat No. CSP-24038) at 2 µg/mL (100 µL/well) can bind anti-Rhesus macaque CD4 monoclonal antibody with half maximal effective concentration (EC<sub>50</sub>) range of 0.18-0.71 µg/mL (QC tested).

## SDS-PAGE



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

The migration range of the dimer protein with glycosylation under non-reduced condition is between 120 and 190 kDa on SDS PAGE.



Rhesus macaque CD4 Protein Dimer, His Tag  
Product Code: CSP-24038  
For Research Use Only (RUO)

**Expression Host**  
HEK293T

**Protein Name**  
CD4

**Purity**  
Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

**Alternate Name(s)**  
T-cell surface antigen T4/Leu-3

**Protein Construct**  
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. Expressed in HEK293T cell line.

**Amino Acid Range**  
K26-P396

**SDS-Page Molecular Weight**  
98 kDa. The migration range of the dimer protein with glycosylation under non-reduced condition is between 120 and 190 kDa on SDS PAGE.

**Formulation**  
0.22µm filtered PBS, pH 7.4

**Shipping Conditions**  
Frozen Dry Ice

**Stability & Storage**  
-80°C

## Background

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.