

Datasheet for ABIN7274185

CD4 Protein (CD4) (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD4 protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Lys26-Trp390
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Biotinylated Human CD4, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC50 of 17.2ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	CD4 antigen (p55), CD4 Molecule, CD4 receptor, CD4, CD4mut, EU3,CD4, also known as L3T4, T4, and W3/25, is an approximately 55 kDa type I transmembrane glycoprotein that is

Target Details

expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification of T cell populations. Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex.

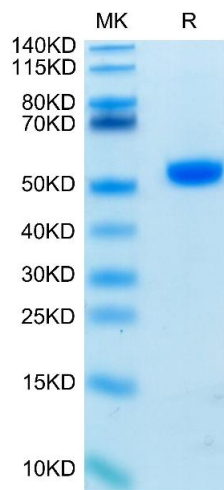
Molecular Weight:	43.6 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
UniProt:	P01730
Pathways:	TCR Signaling , Maintenance of Protein Location , CXCR4-mediated Signaling Events

Application Details

Restrictions:	For Research Use only
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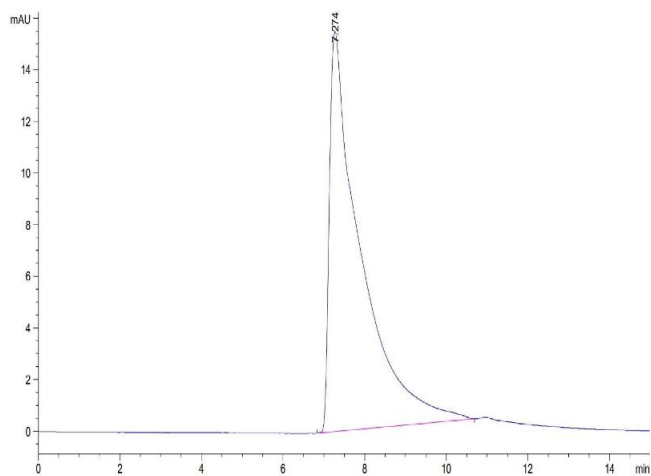
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C, -80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Biotinylated Human CD4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

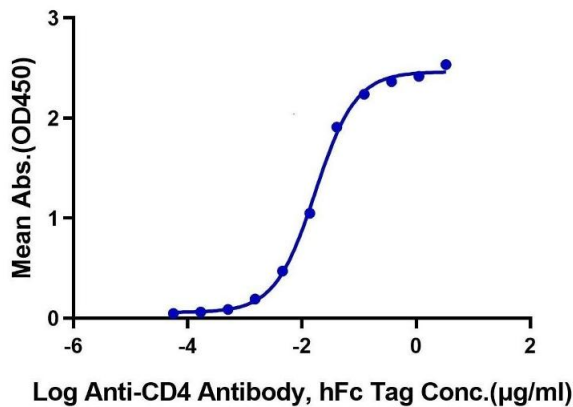


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Biotinylated Human CD4 is greater than 95 % as determined by SEC-HPLC.

Biotinylated Human CD4, His Tag ELISA

0.05µg Biotinylated Human CD4, His Tag Per Well



ELISA

Image 3. Immobilized Biotinylated Human CD4, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC50 of 17.2 ng/mL determined by ELISA.