

Datasheet for ABIN7274181

CD4 Protein (CD4) (AA 26-390) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD4
Protein Characteristics:	AA 26-390
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD4 protein is labelled with Fc Tag.

Product Details

Purpose:	Human CD4/LEU3 Protein
Sequence:	Lys26-Trp390
Characteristics:	Recombinant Human CD4/LEU3 Protein is expressed from HEK293 with hFc at the C-Terminus. It contains 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 Human CD4 at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CD4 Antibody, hFc Tag with the EC50 of 20.9ng/ml determined by ELISA. See testing image for detail.

Target Details

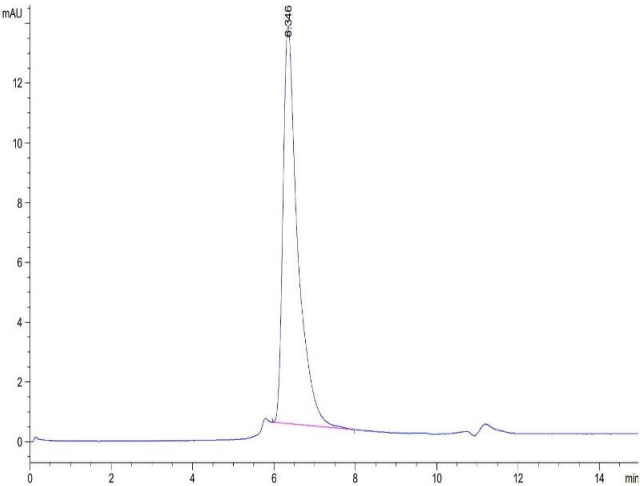
Target:	CD4
Alternative Name:	CD4 (CD4 Products)
Background:	CD4, also known as L3T4, T4, and W3/25, is an approximately 55 kDa type I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification 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:	67.5 kDa. Due to glycosylation, the protein migrates to 70-80 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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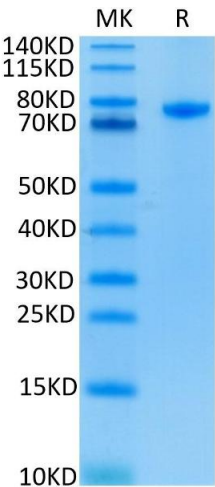
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS, 100 mM L-arginine (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



Size-exclusion chromatography-High Pressure Liquid Chromatography

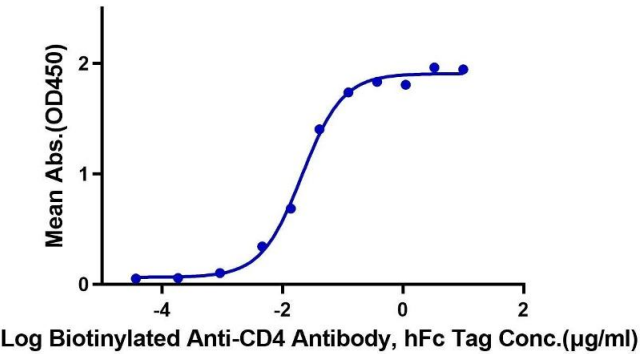
Image 1. The purity of Human CD4 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Human CD4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human CD4, hFc Tag ELISA
0.05µg Human CD4, hFc Tag Per Well



ELISA

Image 3. Immobilized Human CD4 at 0.5 µg/mL (100 µ L/Well) on the plate. Dose response curve for Biotinylated Anti-CD4 Antibody, hFc Tag with the EC50 of 20.9 ng/mL determined by ELISA.