

Human CD4/LEU3 Protein

Cat. No. CD4-HM401



Description

Source	Recombinant Human CD4/LEU3 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Lys26-Trp390.
Accession	P01730
Molecular Weight	The protein has a predicted MW of 43.6 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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.

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.

Assay Data

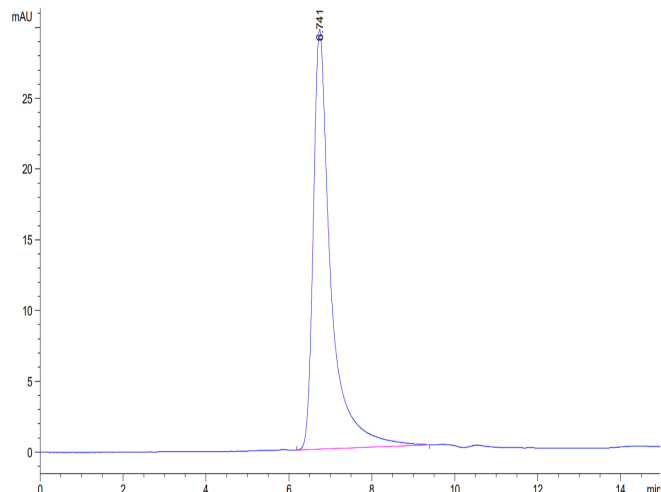
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

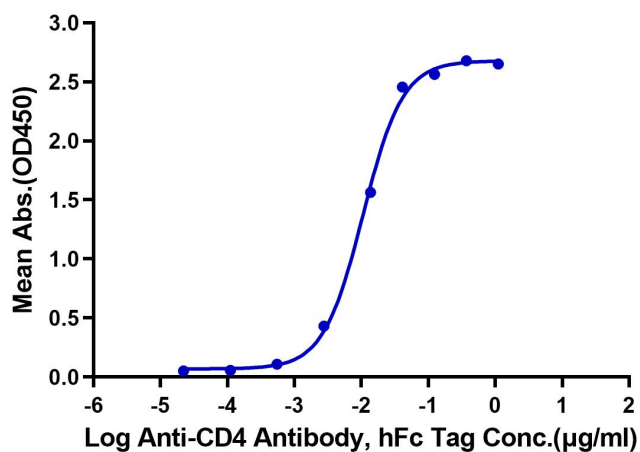


The purity of Human CD4 is greater than 95% as determined by SEC-HPLC

ELISA Data

Human CD4, His Tag ELISA

0.05µg Human CD4, His Tag Per Well

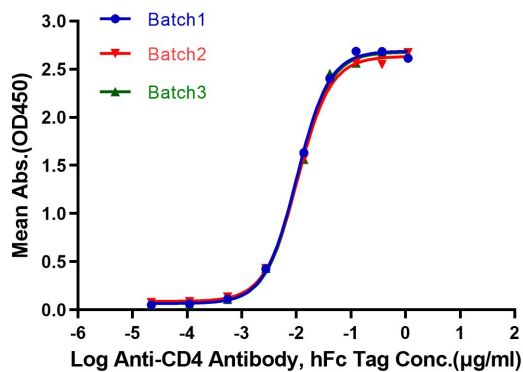


Immobilized Human CD4 at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC50 10.6ng/ml determined by ELISA.

Batch to Batch Consistency

Human CD4, His Tag ELISA

0.05µg Human CD4, His Tag Per Well



Immobilized Human CD4 at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC50 of 10.2ng/ml / 10.6ng/ml / 10.6ng/ml determined by ELISA.