

Human CD4/LEU3 Protein

Cat. No. CD4-HM401



Description

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|-------------------------|--|
| 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 Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

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| 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. -80°C for 3 months 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.

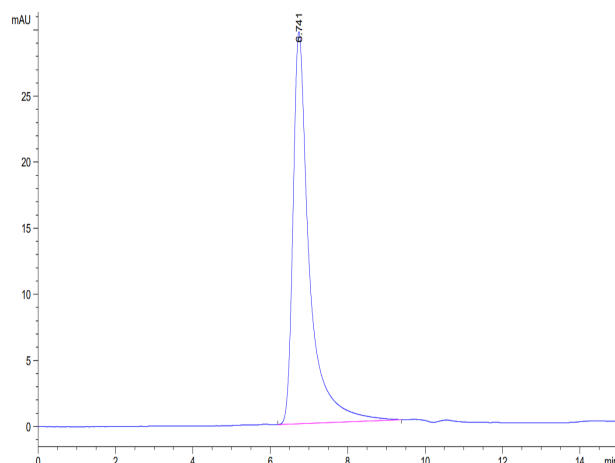
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



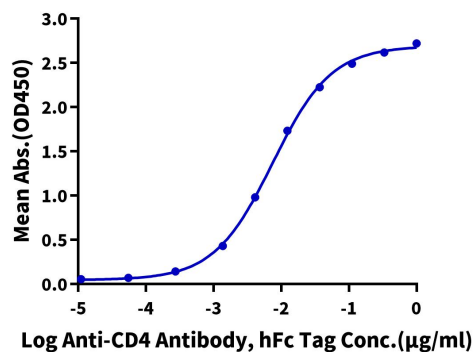
The purity of Human CD4 is greater than 95% as determined by SEC-HPLC

Assay Data

ELISA Data

Human CD4, His Tag ELISA

0.1µg Human CD4, His Tag Per Well



Immobilized Human CD4 at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD4 Antibody, hFc Tag with the EC50 10.6ng/ml determined by ELISA.