

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.<br>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<br>> 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          | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                             |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
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| 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

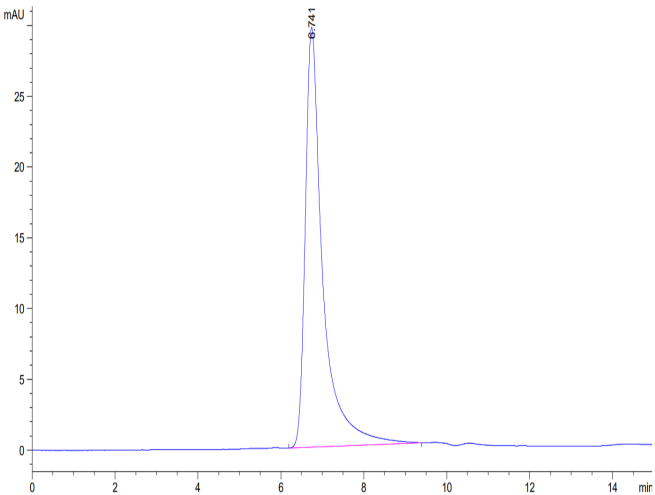
Bis-Tris PAGE



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

SEC-HPLC

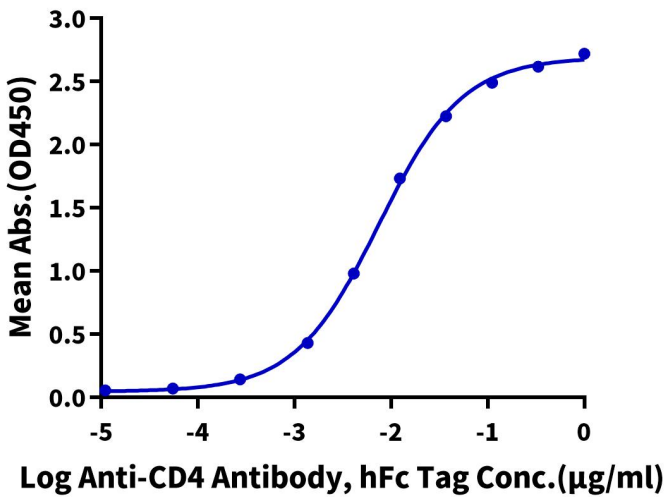
Assay Data



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

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.