

Rev03
 Update: Aug,08,2025

DATASHEET

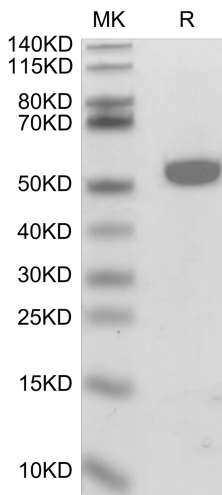
CD4/LEU3 [Biotin], His & Avi, Human

Cat. No.: Z04015

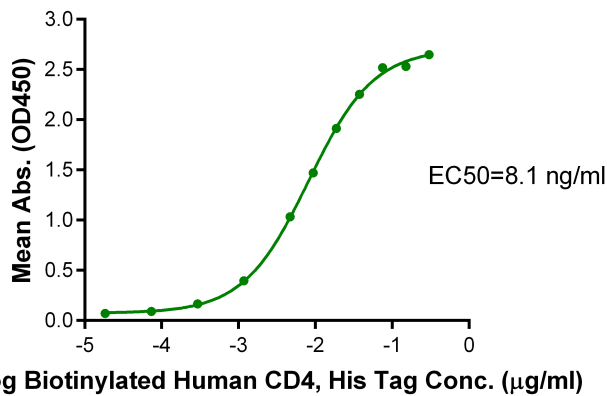
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center; margin-right: 5px;"> CD4/LEU3 (Lys26-Trp390) Accession # P01730 </div> <div style="background-color: #90c080; color: white; padding: 5px; text-align: center; margin-right: 5px;">His</div> <div style="background-color: #4f81bd; color: white; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; width: 100%; margin-top: 2px;"> N-term C-term </div>
Conjugate	Biotin
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Anti-CD4 Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate can bind CD4/LEU3 [Biotin], His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	43.6 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

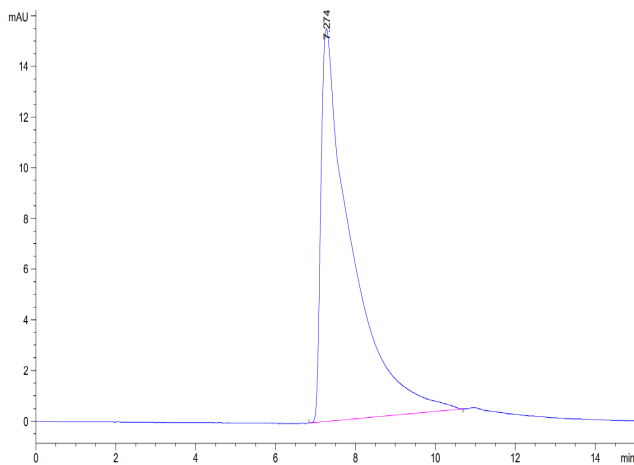
Examples



CD4/LEU3[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized Anti-CD4 Antibody, hFc Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for CD4/LEU3[Biotin], His & Avi, Human, His Tag with the EC50 of 8.1 ng/ml determined by ELISA.



The purity of CD4/LEU3[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : CD4 antigen (p55); CD4 molecule; CD4 receptor; CD4; CD4mut; EU3

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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