# Recombinant Mouse LEU3/CD4 Protein

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Catalog No.: RP02947 Recombinant

### **Sequence Information**

**Species** Gene ID **Swiss Prot** Mouse 12504 P06332

**Tags** C-His

**Synonyms** L3T4; Ly-4

### **Product Information**

**Purification** Source HEK293 cells ≥ 95 % as

> determined by SDS-PAGE.≥ 95 % as determined by HPLC.

Calculated MW Observed MW

42.4 kDa 50-70 kDa

### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

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## **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.

### **Basic Information**

### Description

Recombinant Mouse LEU3/CD4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys27-Thr394) of mouse CD4 (Accession  $\#NP_038516.1$ ) fused with a  $6\times His$  tag at the C-terminus.

### **Bio-Activity**

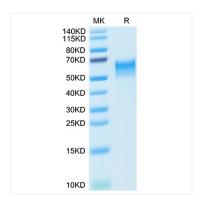
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

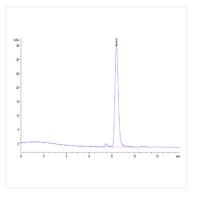
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

# **Validation Data**



Recombinant Mouse LEU3/CD4 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Mouse CD4 is greater than 95% as determined by SEC-HPLC.  $\label{eq:cdf} % \begin{center} \end{constraint} % \begin{center} \end{center} % \$