

# Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand www.abclonal.com Protein

Catalog No.: RP01864 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Mouse 21948 055237

**Tags** N-his

**Synonyms** 

Cd70; Cd27l; Cd27lg; Tnfsf7[CD70 antigen; CD27 ligand; CD27-L; Tumor necrosis factor ligand superfamily member 7; CD70.

#### **Product Information**

Source

Purification

HEK293 cells

≥ 90% as determined by SDS-

PAGE.

Calculated MW Observed MW

12.48 kDa 25-30 kDa

#### **Endotoxin**

 $< 0.1 \; \text{EU/}\mu\text{g}$  of the protein by LAL method.

#### **Formulation**

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

## Reconstitution

Centrifuge the vial 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**

CD70 is the ligand of CD27 in activated T and B lymphocytes, is an important cytokine in CD70-CD27 pathway involving with the generation and maintenance of T cell immunity. CD70 is a surface antigen, also shows antiviral activity and regulates viability of tumor cells and regulatory T cells. As for CD70 protein in mouse contains TNF 2 domain (60-190 a.a) and transmembrane helix, belonging to the tumor necrosis factor (TNF) family. CD70 (CD27 Ligand) belongs to the tumor necrosis factor (TNF) family, is the ligand for TNFRSF27/CD27. CD70 and CD27 are homotrimer type II and homodimer type I transmembrane glycoprotein, expressing on activated and resting T and B lymphocytes, respectively. As for a wildly use of CD70 in animal disease model, the sequence of amino acids in mouse is very different from human (56.25%) and rat (77.20%). CD70 as one of the most frequently mutated genes in a series of diffuse large B cell lymphomas, especially acts in a crucial Epstein-Barr virus (EBV)-specific T cell immunity and more generally for the immune surveillance of B cells. CD70 inhibits EBV infection by restoring the expansion of EBV-specific T lymphocytes stimulated by the CD70-deficient EBV-infected B cells. CD70 involves in activation of innate and adaptive immunity, expressing in the mature dendritic cells and being up-regulated upon the triggering of CD40 or Toll-like receptors. CD70 induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. CD70 is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin sythesis. targeting CD70 positive tumors with CAR-T cells induces a potent antitumor response.

## **Basic Information**

#### **Description**

Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu53-Arg195) of Mouse CD70/TNFSF7/CD27 Ligand (Accession #NP\_035747.1) fused with a His tag at the N-terminus.

## **Bio-Activity**

#### **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## 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.

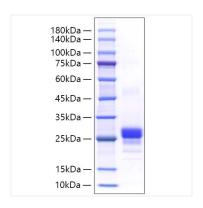
Avoid repeated freeze/thaw cycles.

## **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

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## **Validation Data**



Recombinant Mouse TNFSF7/CD27 Ligand/CD70 Ligand Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.