

Datasheet for ABIN6951035  
**CD70 Protein (AA 52-193) (His tag,AVI tag,DYKDDDDK Tag,Biotin)**



[Go to Product page](#)

3 Images

Overview

Quantity:	200 µg
Target:	CD70
Protein Characteristics:	AA 52-193
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD70 protein is labelled with His tag,AVI tag,DYKDDDDK Tag,Biotin.

Product Details

Sequence:	AA 52-193
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD70
Alternative Name:	CD27 Ligand ( <a href="#">CD70 Products</a> )
Background:	Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7,

## Target Details

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TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFN $\gamma$  production, on NK cells.

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Molecular Weight: 51.0 kDa

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NCBI Accession: [NP\\_001243](#)

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Pathways: [Cancer Immune Checkpoints](#)

## Application Details

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Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:  
The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Buffer: PBS, pH 7.4

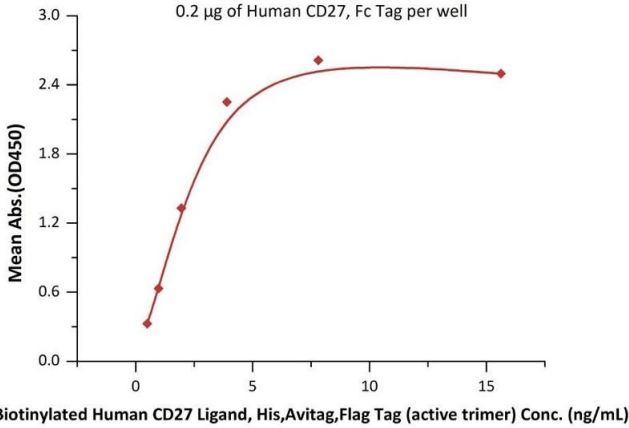
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Handling Advice: Please avoid repeated freeze-thaw cycles.

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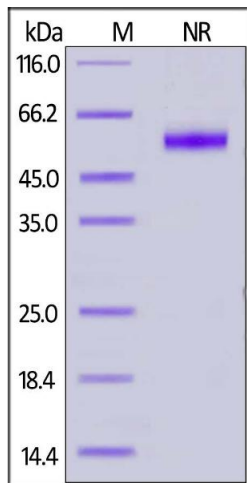
Storage: -20 °C

**Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (active trimer) ELISA**



**ELISA**

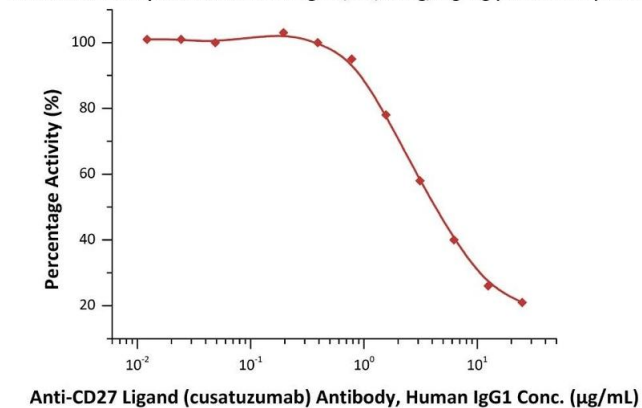
**Image 1.** Immobilized Human CD27, Fc Tag (ABIN2180735,ABIN2180734) at 2 µg/mL (100 µL/well) can bind Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (active trimer) (MALS verified) (ABIN6951035,ABIN6952257) with a linear range of 0.1-4 ng/mL (QC tested).



**SDS-PAGE**

**Image 2.** Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (active trimer) (MALS verified) on under ing (NR) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

**Inhibition of Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (active trimer) ELISA**



**ELISA**

**Image 3.** Serial dilutions of A Ligand (cusatuzumab) Antibody, Human IgG1 were added into Human CD27, Fc Tag (ABIN2180735,ABIN2180734) : Biotinylated Human CD27 Ligand, His,Avitag,Flag Tag (active trimer) (MALS verified) (ABIN6951035,ABIN6952257) binding reactions. The half maximal inhibitory concentration (IC50) is 3.05858 µg/mL (Routinely tested).