

## Datasheet for ABIN4949167 CD40 Ligand Protein (CD40LG) (AA 115-260) (Fc Tag)



Images

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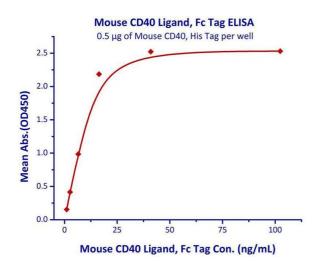
Overview	
Quantity:	100 µg
Target:	CD40 Ligand (CD40LG)
Protein Characteristics:	AA 115-260
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with Fc Tag.
Application:	Functional Studies (Func)
Product Details	
Sequence:	AA 115-260
Characteristics:	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 42.9 kDa. As a result of glycosylation, the protein migrates as 52 kDa under reducing (R) condition, and 90-116 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per $\mu g$ by the LAL method.
Target Details	
Target:	CD40 Ligand (CD40LG)

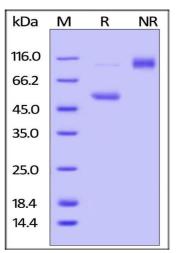
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Target Details	
Alternative Name:	CD40 Ligand (CD40LG Products)
Background:	CD40 ligand is also known as CD40L, CD154, TNFSF5 and T-cell antigen Gp39, is a single-pass
	type I I membrane protein which belongs to the TNF superfamily of molecules. CD40 ligand is
	expressed predominantly on activated CD4+ T lymphocytes, and also found in other types of
	cells, including platelets, mast cells, macrophages, basophils, NK cells, B lymphocytes, as well
	as non-haematopoietic cells (smooth muscle cells, endothelial cells, and epithelial cells).
	Although all monomeric, dimeric and trimeric forms of soluble CD40 ligand can bind to CD40,
	the trimeric form of soluble CD40 ligand has the most potent biological activity through
	oligomerization of cell surface CD40, a common feature of TNF receptor family members.
	CD40 ligand binds to CD40 on antigen-presenting cells (APC), which leads to many effects
	depending on the target cell type. In general, CD40 ligand plays the role of a costimulatory
	molecule and induces activation in APC in association with T cell receptor stimulation by MHC
	molecules on the APC. In total CD40 ligand has three binding partners: CD40, $\alpha5\beta1$ integrin and
	αllbβ3. CD40 ligand regulates B cell function by engaging CD40 on the B cell surface. A defect
	in this gene results in an inability to undergo immunoglobulin class switch and is associated
	with hyper IgM syndrome.
Molecular Weight:	42.9 kDa
UniProt:	P27548
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response, Cancer Immune
	Checkpoints
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

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## Images





## **Binding Studies**

**Image 1.** Immobilized Mouse CD40, His Tag with a linear range of 1-16 ng/mL.

## SDS-PAGE

**Image 2.** Mouse CD40 Ligand / TNFSF5, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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