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CD40 Ligand Protein (CD40LG) (His tag)





Go to Product page

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Quantity:	50 μg
Target:	CD40 Ligand (CD40LG)
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with His tag.
Dradust Dataila	

Product Details

Purpose:	Recombinant Mouse CD40LG/TNFSF5 Protein (His Tag)(Active)
Sequence:	Met112-Leu260
Characteristics:	Recombinant Mouse CD40L is produced by our Mammalian expression system and the target gene encoding Met112-Leu260 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human CD40-Fc(Cat: PKSM041225) at 2µg/ml(100 µl/well) can bind Human CD40LG-His. The ED50 of Human CD40LG-His(Cat: PKSH033600)) is 13.84ng/mL.

Target Details

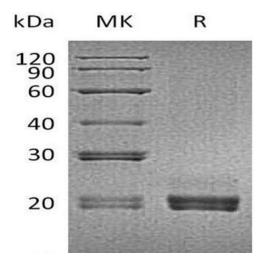
Target:	CD40 Ligand (CD40LG)

Target Details

Alternative Name:	CD40LG/TNFSF5 (CD40LG Products)	
Background:	Background: CD40 Ligand, also known as TNFSF5, CD154, is a type II transmembrane	
	glycoprotein member of the TNF superfamily. Mature mouse CD40 Ligand consists of a 22	
	amino acid (aa) cytoplasmic domain, a transmembrane segment, and a 214 aa extracellular	
	region. CD40 Ligand is expressed as a homotrimer on platelets and activated T cells and B	
	cells. It is up-regulated following stimulation of basophils, eosinophils, fibroblasts, mast cells,	
	monocytes, natural killer cells, vascular endothelial cells, and smooth muscle cells. CD40	
	Ligand binds and activates CD40, which is expressed on the surface of B cells, dendritic	
	cells,macrophages, monocytes, platelets, endothelial cells, and epithelial cells. Monomeric,	
	dimeric, and trimeric forms of soluble CD40 Ligand bind to oligomeric CD40 on cell	
	membranes. CD40 ligation by CD40 Ligand promotes B cell activation and T cell-dependent	
	humoral responses. CD40 Ligand dysregulation on T cells and antigen presenting cells	
	contributes to the immune deficiency associated with HIV infection and AIDS. It is also	
	implicated in the pathology of multiple cardiovascular diseases including atherosclerosis,	
	atherothrombosis, and restenosis.	
	Synonym: CD40 Ligand, CD40LG,HIGM1, T-B cell-activating molecule, T-BAM, TNFSF5, tumor	
	necrosis factor (ligand) superfamily member 5, Tumor necrosis factor ligand superfamily	
	member 5	
Molecular Weight:	18.8 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	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 200 mM NaCl, 0.1 mM EDTA, pH 7.0.	
	4 °C,-20 °C,-80 °C	
Storage:	4 °C,-20 °C,-80 °C	

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.