Datasheet for ABIN6253627

CD40 Ligand Protein (CD40LG) (AA 113-261) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	CD40 Ligand (CD40LG)
Protein Characteristics:	AA 113-261
Origin:	Human, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with Fc Tag.

Product Details

Sequence:	AA 113-261
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	CD40 Ligand (CD40LG)
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

Target Details

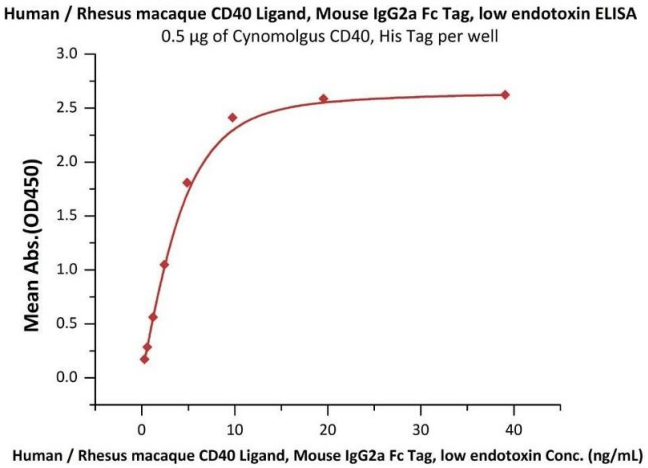
	as non-haematopoietic cells (smooth muscle cells, endothelial cells, and epithelial cells). Although all monomeric, dimeric and trimeric forms of soluble CD40 ligand can bind to CD40, the trimeric form of soluble CD40 ligand has the most potent biological activity through oligomerization of cell surface 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, α5β1 integrin and αIIbβ3. 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:	43.1 kDa
NCBI Accession:	NP_000065
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

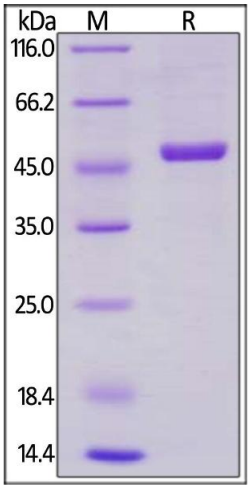
Handling

Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



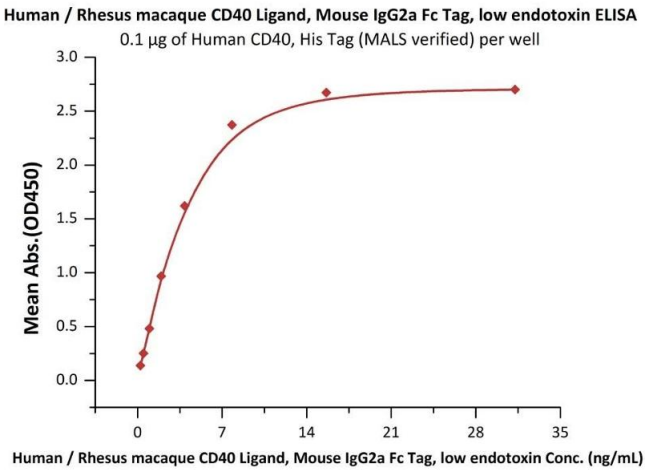
ELISA

Image 1. Immobilized Cynomolgus CD40, His Tag (ABIN2870588,ABIN2870589) at 5 μg/mL (100 μL/well) can bind Human / Rhesus macaque CD40 Ligand, Mouse IgG2a Fc Tag, low endotoxin (ABIN5954903,ABIN6253627) with a linear range of 0.3-5 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Human / Rhesus macaque CD40 Ligand, Mouse IgG2a Fc Tag, low endotoxin on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .



ELISA

Image 3. Immobilized Human CD40, His Tag (MALS verified) (ABIN2180793,ABIN2180792) at 1 μg/mL (100 μL/well) can bind Human / Rhesus macaque CD40 Ligand, Mouse IgG2a Fc Tag, low endotoxin (ABIN5954903,ABIN6253627) with a linear range of 0.1-4 ng/mL (QC tested).