Datasheet for ABIN1344289

CD40 Ligand Protein (CD40LG) (AA 18-111) (DYKDDDDK Tag)

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Overview

Quantity:	10 µg
Target:	CD40 Ligand (CD40LG)
Protein Characteristics:	AA 18-111
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 Ligand protein is labelled with DYKDDDDK Tag.
Application:	SDS-PAGE (SDS)

Product Details

Brand:	MegaCD40L™
Specificity:	Binds to human CD40.
Cross-Reactivity:	Human
Characteristics:	Human CD40L (aa 116-261) is fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG®-tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test, Lonza).

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Target Details

Target:	CD40 Ligand (CD40LG)
Alternative Name:	MegaCD40L (CD40LG Products)
Background:	MultimericCD40L™ is a high activity construct in which two trimeric CD40 ligands are artificially linked via the collagen domain of ACRP30. This construct very effectively simulates the natural membrane-assisted aggregation of CD40L in vivo. It provides a simple and equally potent alternative to combinations. MultimericCD40L™ has shown to suppress alum-induced IL-1beta release and caspase-1 activation in a dose-, CD40- and time dependent manner, without affecting BMDM viability. It also effectively suppressed the inflammasome function triggered by NLRP3 activators. The secretion of caspase-1 independent inflammatory mediators has been shown to be unaltered or even enhanced.
Molecular Weight:	~35-40kDa (SDS-PAGE)
UniProt:	P29965
Pathways:	NF-kappaB Signaling, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Induces B cells activation (as demonstrated by dose-dependent upregulation of CD86) (ED50: <1ng/ml).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	Lot specific
Buffer:	Lyophilized. Contains PBS
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Stable for at least 6 months after receipt when stored at -20°C.
Expiry Date:	6 months

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Publications

Product cited in:	Jung, Kim, Hong, Youn, Kim: "Adiponectin induces dendritic cell activation via PLC?/JNK/NF-?B pathways, leading to Th1 and Th17 polarization." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 188, Issue 6, pp. 2592-601, (2012) (PubMed).

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