

CD40 Ligand Recombinant Protein | CD40LG recombinant protein

CD40 Ligand Protein, Human, Recombinant (ECD, hFc Tag)

CATALOG #
AAA257405

HOST
HEK293 Cells

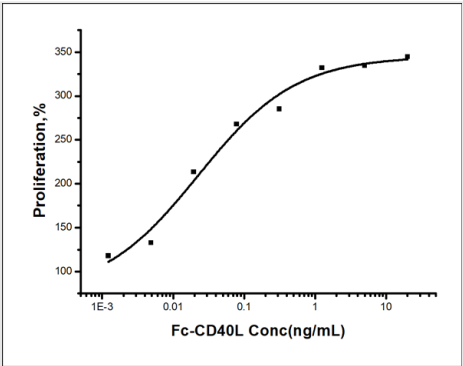
PRODUCT SYNONYMS

CD40 Ligand; CD40 Ligand Protein; Human; Recombinant (ECD; hFc Tag); Human CD40L/CD154/TNFSF5 Protein (Fc Tag); CD40 ligand; CD154 Protein; CD40L Protein; gp39 Protein; hCD40L Protein; HIGM1 Protein; IGM Protein; IMD3 Protein; T-BAM Protein; TNFSF5 Protein; TRAP Protein; CD40LG recombinant protein

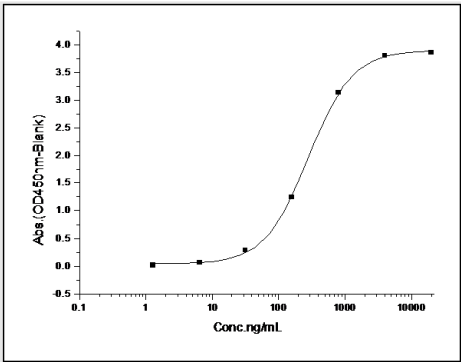
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	386aa
Sequence	Met113-Leu 261
Species	Human
Tag	hFc
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu20
Protein Construction	JA DNA sequence encoding the soluble form of human CD40L (NP_000065.1) (Met 113-Leu 261) was fused with the Fc region of human IgG1 at the N-terminus
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human CD40 at 2ug/ml (100ul/well) can bind human CD40L Fc Chimera with a linear range of 1.28-32ng/ml. 2. Measured in a cell proliferation assay using Ramos.2G6.4C10 Burkitt's lymphoma cells. The ED50 for this effect is typically 10-50ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data
Measured in a cell proliferation assay using Ramos.2G6.4C10 Burkitt's lymphoma cells. The ED50 for this effect is typically 10-50 ng/mL.



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Measured by its binding ability in a functional ELISA. Immobilized human CD40 at 2 ug/ml (100 ul/well) can bind human CD40L Fc Chimera with a linear ranger of 1.28-32 ng/ml.



Application Data

ADDITIONAL INFORMATION

Related Product Information for CD40LG recombinant protein	The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD154, also known as CD40 ligand or CD40L, is a member of the TNF superfamily. While CD154 was originally found on T cell surface, its expression has since been found on a wide variety of cells, including platelets, mast cells, macrophages and NK cells. CD154's ability is achieved through binding to the CD40 on antigen-presenting cells (APC). In the macrophage cells, the primary signal for activation is IFN-gamma from Th1 type CD4 T cells. The secondary signal is CD40L on the T cell, which interacting with the CD40 molecules, helping increase the level of activation.
Product Categories/Family for CD40LG recombinant protein	Cancer Drug Targets
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Grewal IS, et al. (1998) CD40 and CD154 in cell-mediated immunity. Annual Review of Immunology. 16: 111-35.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557433
NCBI GeneID	959
NCBI Accession #	NP_000065.1
NCBI GenBank Nucleotide #	NM_000074.2
UniProt Accession #	P29965

Molecular Weight	29,274 Da
NCBI Official Full Name	CD40 ligand
NCBI Official Synonym Full Names	CD40 ligand
NCBI Official Symbol	CD40LG
NCBI Official Synonym Symbols	IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
NCBI Protein Information	CD40 ligand; CD40-L; CD40 antigen ligand; T-cell antigen Gp39; T-B cell-activating molecule; TNF-related activation protein; tumor necrosis factor (ligand) superfamily member 5
UniProt Protein Name	CD40 ligand
UniProt Gene Name	CD40LG
UniProt Synonym Gene Names	CD40L; TNFSF5; TRAP; CD40-L; TRAP
UniProt Entry Name	CD40L_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cd40lg-recombinant-protein-hek293-cells/257405>