

CD40 Ligand Recombinant Protein | CD40LG recombinant protein

CD40 Ligand Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257406

HOST
E Coli

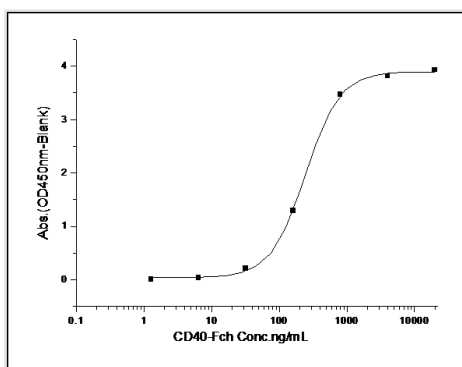
PRODUCT SYNONYMS

CD40 Ligand; CD40 Ligand Protein; Human; Recombinant (His Tag); Human CD40L/CD154/TNFSF5 Protein (His 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

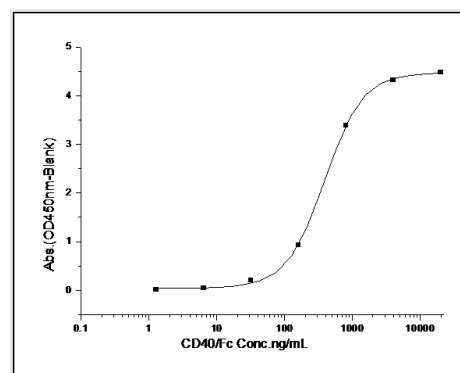
Host	E Coli
Purity/Purification	>95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4, 10% glycerol Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	161aa
Sequence	Glu108-Leu 261
Species	Human
Tag	C-His
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the soluble form of human CD40L (NP_000065.1) (Glu 108-Leu 261) was expressed with an initial Met at the N-terminus and a polyhistidine tag at the C-terminus
Activity	Measured by its binding ability in a functional ELISA.1. Immobilized human CD40L at 10ug/ml (100ul/well) can bind human CD40 with a linear range of 15.6-500ng/ml. 2. Immobilized human CD40L at 10ug/ml (100ul/well) can bind human CD40/Fc with a linear range of 7.8-125ng/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



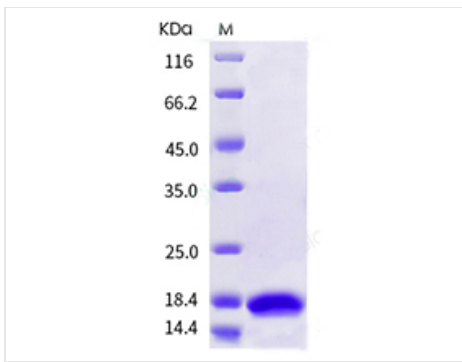
Application Data

Measured by its binding ability in a functional ELISA. Immobilized human CD40L at 10 ug/ml (100 ul/well) can bind human CD40 / Fc with a linear range of 7.8-125 ng/ml.



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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-e-coli/257406>