

CD40 Ligand Active Protein | CD40LG active protein

CD40 Ligand Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258155

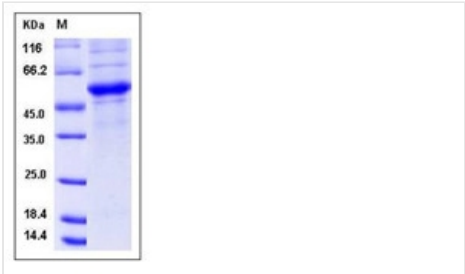
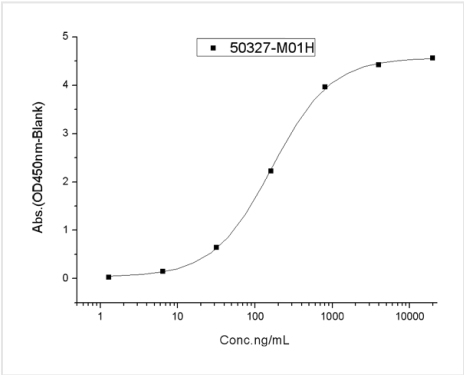
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD40 Ligand; CD40 Ligand Protein; Mouse; Recombinant (hFc Tag); Mouse CD40L/CD154/TNFSF5 Protein (Fc Tag); CD154 Protein; CD40-L Protein; Cd40l Protein; gp39 Protein; HIGM1 Protein; IGM Protein; IMD3 Protein; Ly-62 Protein; Ly62 Protein; T-BAM Protein; Tnfsf5 Protein; TRAP Protein; CD40 ligand; CD40LG active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>80% 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. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Gly115-Leu 260
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the soluble form of mouse CD40LG (P27548)(Gly 115-Leu 260) was fused with the Fc region of human IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse CD40 His at 2ug/ml (100uL/well) can bind Mouse CD40 Ligand hFc. The EC50 of Mouse CD40 Ligand hFc is 60-300ng/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. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized Mouse CD40 His at 2 ug/ml (100 ul/well) can bind Mouse CD40 Ligand hFc, the EC50 of Mouse CD40 Ligand hFc is 60-300 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CD40LG active protein	Background: 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 active 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 #	15011846
NCBI GeneID	21947
NCBI Accession #	NP_035746.2
NCBI GenBank Nucleotide #	NM_011616.2
UniProt Accession #	P27548
Molecular Weight	29,370 Da
NCBI Official Full Name	CD40 ligand
NCBI Official Synonym Full Names	CD40 ligand
NCBI Official Symbol	Cd40lg
NCBI Official Synonym Symbols	IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b

NCBI Protein Information	CD40 ligand
UniProt Protein Name	CD40 ligand
UniProt Gene Name	Cd40lg
UniProt Synonym Gene Names	Cd40l; Tnfsf5; CD40-L; TRAP
UniProt Entry Name	CD40L_MOUSE

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/hek293-cells-cd40lg-active-protein/cd40-ligand/258155>