

CD40 recombinant protein

CD40 Protein, Mouse, Recombinant (ECD, His Tag)

CATALOG #
AAA257469

HOST
HEK293 Cells

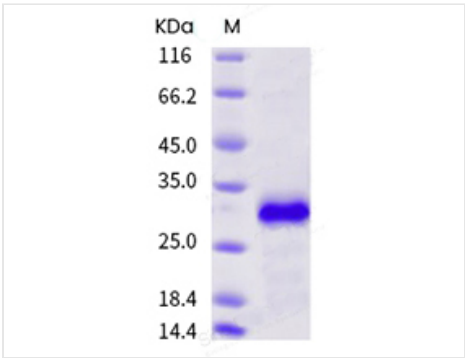
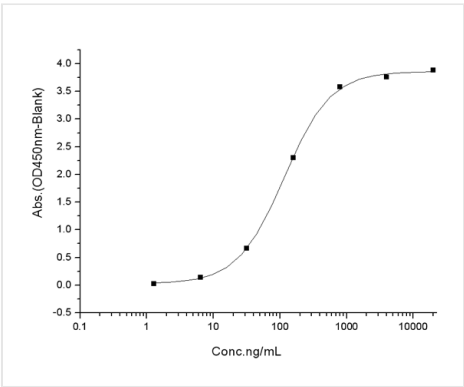
PRODUCT SYNONYMS

CD40; CD40 Protein; Mouse; Recombinant (ECD; His Tag); Mouse CD40/TNFRSF5 Protein (His Tag); CD40 molecule; TNF receptor superfamily member 5; AI326936 Protein; Bp50 Protein; GP39 Protein; HIGM1 Protein; IGM Protein; IMD3 Protein; p50 Protein; T-BAM Protein; Tnfrsf5 Protein; TRAP Protein; CD40 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95 % 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	185aa
Sequence	Met1-Arg193
Species	Mouse
Tag	C-His
Endotoxin	<1.0EU per ug protein as determined by the LAL method
Predicted N Terminal	Leu20
Protein Construction	A DNA sequence encoding the mouse CD40 (NP_035741.2) (Met1-Arg193) was expressed with a polyhistidine tag at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized CD40 Protein, Mouse, (ECD, His Tag) (50324-M08H) at 2ug/mL (100uL/well) can bind CD40 Ligand Protein, Human, (hFc Tag) (10239-H01H). The EC50 of CD40 L-hFc is 70-180ng/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

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Measured by its binding ability in a functional ELISA. Immobilized CD40 Protein, Mouse, (ECD, His Tag)(50324-M08H) at 2 ug/mL (100 uL/well) can bind CD40 Ligand Protein, Human, (hFc Tag)(10239-H01H), the EC50 of CD40 L-hFc is 70-180 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CD40 recombinant protein	CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.
Product Categories/Family for CD40 recombinant protein	Cancer Drug Targets; B Cell Receptor Signaling Pathway
References	van Kooten C, et al. (2000). CD40-CD40 ligand. J Leukoc Biol. 67 (1): 2-17.Bhushan A, et al. (2002). CD40:CD40L interactions in X-linked and non-X-linked hyper-IgM syndromes. Immunol Res. 24 (3): 311-24.Chatzigeorgiou A, et al. (2009) CD40/CD40L signaling and its implication in health and disease. Biofactors. 35(6): 474-83.Li R, et al. (2009) Expression of CD40 and CD40L in Gastric Cancer Tissue and Its Clinical Significance. Int J Mol Sci. 10(9): 3900-17.Lievens D, et al. (2009) The multi-functionality of CD40L and its receptor CD40 in atherosclerosis. Thromb Haemost. 102(2): 206-14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	70608202
NCBI GeneID	21939
NCBI Accession #	NP_035741.2
NCBI GenBank Nucleotide #	NM_011611.2
UniProt Accession #	P27512; Q3TS33; Q3TSL2; Q3U799; Q3U7C9; Q3UBH3; Q542B1; Q8K2X6; Q99NE0; Q99NE1; Q99NE2; Q99NE3
Molecular Weight	28,878 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 5 isoform 1
NCBI Official Synonym Full Names	CD40 antigen
NCBI Official Symbol	Cd40
NCBI Official Synonym Symbols	IGM; p50; Bp50; GP39; IMD3; TRAP; HIGM1; T-BAM; Tnfrsf5; AI326936
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5

UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Gene Name	Cd40
UniProt Synonym Gene Names	Tnfrsf5
UniProt Entry Name	TNR5_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/cd40-recombinant-protein-hek293-cells/257469>