

4-1BBL/TNFSF9 Active Protein | TNFSF9 active protein

4-1BBL/TNFSF9 Protein, Human, Recombinant (ECD, hFc Tag)

CATALOG #
AAA258034

HOST
HEK293 Cells

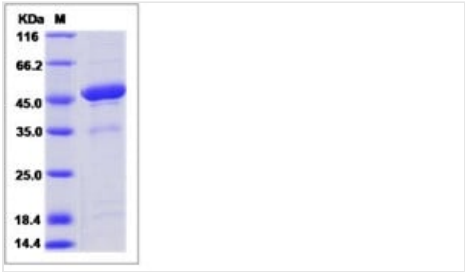
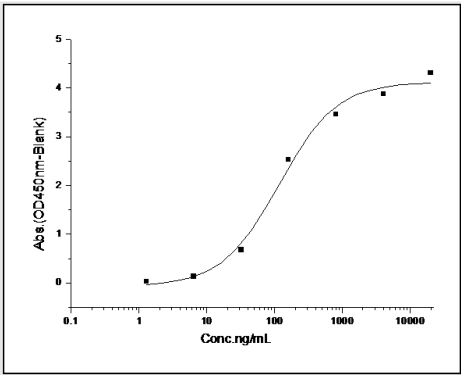
PRODUCT SYNONYMS

4-1BBL/TNFSF9; 4-1BBL/TNFSF9 Protein; Human; Recombinant (ECD; hFc Tag); Human TNFSF9/4-1BBL/CD137L Protein (Fc Tag; ECD); 4-1BB-L Protein; 4-1BBL Protein; CD137L Protein; tumor necrosis factor (ligand) superfamily; member 9; TNFSF9 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>85% 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	Arg71-Glu254
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Glu
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human TNFSF9 (NP_003802.1)(Arg71-Glu254) was expressed 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	1.Measured by its binding ability in a functional ELISA. 2.Immobilized human TNFRSF9 at 10ug/mL (100uL/well) can bind human TNFSF9,the EC50 of human TNFSF9 is 7-40ng/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.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF9 at 10 ug/mL (100 uL/well) can bind human TNFSF9, the EC50 of human TNFSF9 is 7-40ng/mL.

ADDITIONAL INFORMATION

Related Product Information for TNFSF9 active protein	Background: 4-1BB ligand is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. It is shown to be a type II surface glycoprotein belonging to the TNF superfamily. Expression of 4-1BBL is restricted to APCs, such as dendritic cells, macrophages, and activated B cells. Members of the TNF-TNF receptor superfamily have been shown to play critical roles in regulating cellular activation, differentiation and apoptosis. Several studies have reported that 4-1BBL/4-1BB interaction provided a co-stimulatory signal to T cells, and increased T cell proliferation and cytokines production. In addition, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.
Product Categories/Family for TNFSF9 active protein	Cancer Drug Targets
References	Cheung CT, (2007) Neutralizing anti-4-1BBL treatment improves cardiac function in viral myocarditis. Lab Invest. 87(7): 651-61.Wang C, et al. (2009) Immune regulation by 4-1BB and 4-1BBL: complexities and challenges. Immunol Rev. 229(1): 192-215.Habib-Agahi M, et al. (2009) 4-1BBL costimulation retrieves CD28 expression in activated T cells. Cell Immunol. 256(1-2): 39-46.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507609
NCBI GeneID	8744
NCBI Accession #	NP_003802.1
NCBI GenBank Nucleotide #	NM_003811.3
UniProt Accession #	P41273; Q2M3S2
Molecular Weight	26,625 Da
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 9
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 9
NCBI Official Symbol	TNFSF9
NCBI Official Synonym Symbols	CD137L; 4-1BB-L
NCBI Protein Information	tumor necrosis factor ligand superfamily member 9; 4-1BBL; 4-1BB ligand; receptor 4-1BB ligand; homolog of mouse 4-1BB-L
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 9
UniProt Gene Name	TNFSF9
UniProt Synonym Gene Names	4-1BBL

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://www.aaabiotech.com/hek293-active-protein/4-1bbl-tnfsf9/258034>