

Rabbit anti-Mouse, Rat 4-1BBL/Tnfsf9 Polyclonal Antibody | anti-TNFSF9 antibody

Anti-4-1BBL/Tnfsf9 Antibody Picoband

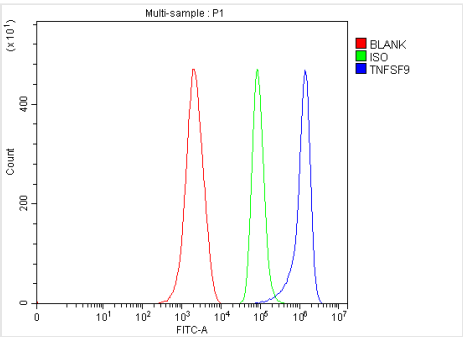
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126449	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

4-1BBL/Tnfsf9; Polyclonal Antibody; Anti-4-1BBL/Tnfsf9 Antibody Picoband; anti-TNFSF9 antibody

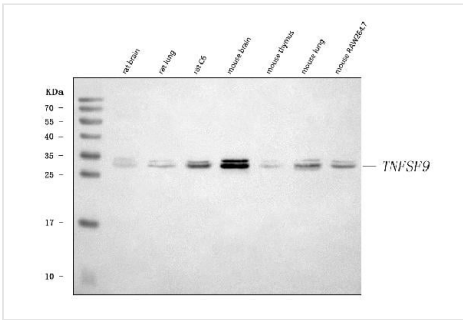
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-TNFSF9 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse 4-1BBL/Tnfsf9 recombinant protein (Position: M1-E309).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of ANA-1 cells using anti-4-1BBL/Tnfsf9 antibody (AAA126449). Overlay histogram showing ANA-1 cells stained with AAA126449 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-4-1BBL/Tnfsf9 Antibody (AAA126449, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of 4-1BBL/Tnfsf9 using anti-4-1BBL/Tnfsf9 antibody (AAA126449). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat lung tissue lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse thymus tissue lysates, Lane 6: mouse lung tissue lysates, Lane 7: mouse RAW264.7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-4-1BBL/Tnfsf9 antigen affinity purified polyclonal antibody (#AAA126449) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for 4-1BBL/Tnfsf9 at approximately 27 kDa. The expected band size for 4-1BBL/Tnfsf9 is at 27 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TNFSF9 antibody	Tumor necrosis factor ligand superfamily member 9 also known as 4-1BB ligand or 4-1BBL or CD137L is a protein that in humans is encoded by the TNFSF9 gene. The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction.
Product Categories/Family for anti-TNFSF9 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678389
NCBI GeneID	21950
NCBI Accession #	NP_033430.1
NCBI GenBank Nucleotide #	NM_009404.3
UniProt Accession #	P41274
Molecular Weight	33,853 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	Ly63; 4-1BBL; Cd137; 4-1BB-L; AI848817

NCBI Protein Information	tumor necrosis factor ligand superfamily member 9; 4-1BB ligand
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 9
UniProt Gene Name	Tnfsf9
UniProt Synonym Gene Names	Cd137l; Cd157l; Ly63l; 4-1BBL
UniProt Entry Name	TNFL9_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/polyclonal/4-1bbi-tnfsf9-antibody-flow-cytometry-western-blot-elisa/126449>