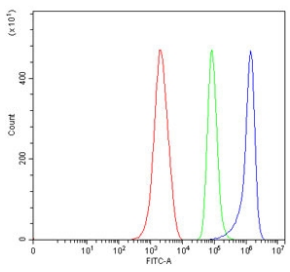
4-1BBL Antibody / CD137L / TNSF9 (RQ7455)

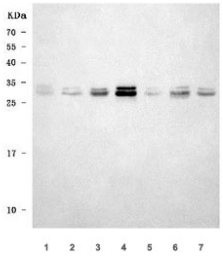
Catalog No.	Formulation	Size
RQ7455	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P41274
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This 4-1BBL antibody is available for research use only.



Flow cytometry testing of mouse ANA-1 cells with 4-1BBL antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= 4-1BBL antibody.



Western blot testing of 1) rat brain, 2) rat lung, 3) rat C6, 4) mouse brain, 5) mouse thymus, 6) mouse lung and 7) mouse RAW264.7 cell lysate with 4-1BBL antibody. Predicted molecular weight ~34 kDa.

Description

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.

Application Notes

Optimal dilution of the 4-1BBL antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant mouse protein (amino acids M1-E309) was used as the immunogen for the 4-1BBL antibody.

Storage

After reconstitution, the 4-1BBL antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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