

Rabbit anti-Mouse 4-1BBL Monoclonal Antibody | anti-4-1BBL antibody

Anti-4-1BBL [AT113-2]

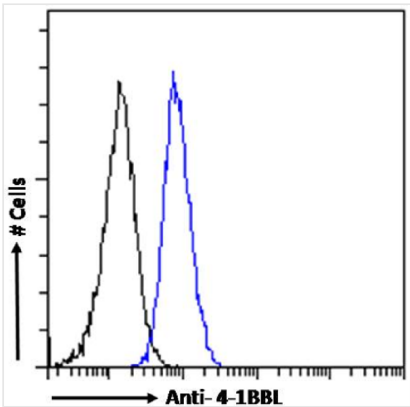
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72109	Rabbit	Mouse	Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

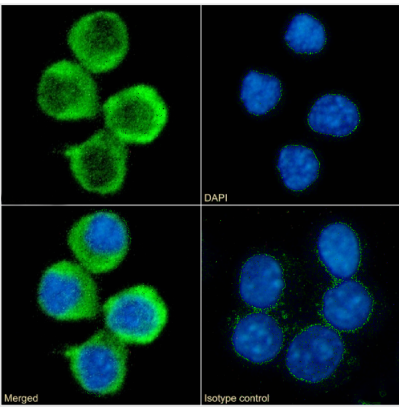
4-1BBL; Monoclonal Antibody; Anti-4-1BBL [AT113-2]; CD137L; TNFSF9; 4-1BB ligand; 41BBL; CDw137L; homolog of mouse 4-1BB-L; receptor 4-1BB ligand; tumor necrosis factor (ligand) superfamily member 9; tumor necrosis factor (ligand) superfamily member 9; tumor necrosis factor ligand 5A; Tumor necrosis factor ligand superfamily member 9; anti-4-1BBL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	AT113-2
Specificity	This antibody is specific for 4-1BB ligand (also known as CD137 ligand), which is a member of the TNF superfamily and is a type II membrane protein. 4-1BB ligand is a co-stimulatory molecule that is expressed on antigen presenting cells (DCs, monocytes/macrophages, B cells) and is upregulated upon activation of these cells. Both of the 4-1BB ligand and its receptor, TNFRSF9/4-1BB, are involved in the antigen presentation process and in the generation of cytotoxic T cells. In direct ELISAs, no cross-reactivity with recombinant human RELT is observed.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-4-1BBL antibody	Blocking, WB (Western Blot), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques.
PMID	17311995
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the anti- 4-1BBL antibody AT113-2 (AAA72109). RAW264.7 cells were fixed using 2% PFA and stained with anti-unknown specificity antibody or the rabbit IgG1 version of AT113-2 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of fixed RAW264.7 cells with anti-4-1BBL antibody AT113-2 (AAA72109). Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of AT113-2 () at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-4-1BBL antibody	Recombinant monoclonal antibody to 4-1BBL. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma AT113-2. This antibody was raised by immunising LOU rats with soluble recombinant 4-1BBL:Fc fusion protein.
Product Categories/Family for anti-4-1BBL antibody	immunology; costimulation; cell signalling; oncology; immuno-oncology; T cells
References	French Ruth et al. Eradication of lymphoma by CD8 T cells following anti-CD40 monoclonal antibody therapy is critically dependent on CD27 costimulation. Blood. 2007 Jun 1;109(11):4810-5. Note on publication: Describe the generation of this antibody and its subsequent use alongside with other antibodies to demonstrate that the eradication of lymphoma by CD8 T cells following anti-CD40 monoclonal antibody therapy is critically dependent on CD27 costimulation.

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	Ly63l; 4-1BBL; Cd137l; 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/monoclonal/4-1bbl-antibody-clone-at113-2-western-blot-flow-cytometry-elisa/72109>