

Rabbit anti-Human TMEM59 Polyclonal Antibody | anti-TMEM59 antibody

Anti-TMEM59 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127583	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

TMEM59; Polyclonal Antibody; Anti-TMEM59 Antibody Picoband; CD72 molecule; B-cell differentiation antigen CD72; Lyb-2; CD72; anti-TMEM59 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Pre-B-cells and B-cells but not terminally differentiated plasma cells.
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 .
Applicable Applications for anti-TMEM59 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human TMEM59 recombinant protein (Position: A37-I323).
Subcellular Localization	Membrane, Single-pass type II membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Plays a role in B-cell proliferation and differentiation.
Preparation and Storage	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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of RT4 cells using anti-TMEM59 antibody (AAA127583).Overlay histogram showing RT4 cells stained with AAA127583 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TMEM59 Antibody (AAA127583, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of TMEM59 using anti-TMEM59 antibody (AAA127583).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: human MCF-7 whole cell lysates,Lane 2: human SiHa whole cell lysates,Lane 3: human U-87MG 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-TMEM59 antigen affinity purified polyclonal antibody (#AAA127583) at 0.5ug/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 TMEM59 at approximately 44 kDa. The expected band size for TMEM59 is at 36 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TMEM59 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-TMEM59 antibody	Primary Antibodies; Adaptive Immunity; B Cells; Hematopoietic Progenitors; Immunology; Lymphoid; Stem Cells
References	1. Boada-Romero, E., Letek, M., Fleischer, A., Pallauf, K., Ramon-Barros, C., Pimentel-Muinos, F. X. TMEM59 defines a novel ATG16L1-binding motif that promotes local activation of LC3. EMBO J. 32: 566-582, 2013.2. Hartz, P. A. Personal Communication. Baltimore, Md. 08/19/2016.3. Ullrich, S., Munch, A., Neumann, S., Kremmer, E., Tatzelt, J., Lichtenthaler, S. F. The novel membrane protein TMEM59 modulates complex glycosylation, cell surface expression, and secretion of the amyloid precursor protein. J. Biol. Chem. 285: 20664-20674, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20070191
NCBI GeneID	9528
NCBI Accession #	NP_004863
NCBI GenBank Nucleotide #	NM_004872.3
UniProt Accession #	Q9BXS4; O75393; Q4VBP9; Q5T705; Q96KX7; B3KQL7
Molecular Weight	36,223 Da
NCBI Official Full Name	transmembrane protein 59
NCBI Official Synonym Full Names	transmembrane protein 59
NCBI Official Symbol	TMEM59
NCBI Official Synonym Symbols	C1orf8; HSPC001
NCBI Protein Information	transmembrane protein 59; liver membrane-bound protein
UniProt Protein Name	Transmembrane protein 59
UniProt Gene Name	TMEM59
UniProt Synonym Gene Names	C1orf8
UniProt Entry Name	TMM59_HUMAN

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/tmem59-antibody-flow-cytometry-western-blot-elisa/127583>