

Rabbit MTMR2 Polyclonal Antibody | anti-MTMR2 antibody

Anti-MTMR2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126365	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

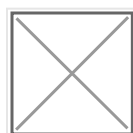
PRODUCT SYNONYMS

MTMR2; Polyclonal Antibody; Anti-MTMR2 Antibody Picoband; Myotubularin-related protein 2; anti-MTMR2 antibody

PRODUCT SPECIFICATIONS

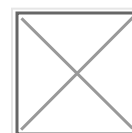
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-MTMR2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human MTMR2 (NLRFAHKPEGRTRRSIFENLMK).
Relevant Detection Systems	Enhanced Chemiluminescent Kit with anti-Rabbit IgG (Cat# please inquire) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (Cat# please inquire) for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-MTMR2 antibody (AAA126365). Overlay histogram showing 293T cells stained with AAA126365 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MTMR2 Antibody (AAA126365, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of MTMR2 using anti-MTMR2 antibody (AAA126365). MTMR2 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-MTMR2 Antibody (AAA126365) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MTMR2 using anti-MTMR2 antibody (AAA126365). 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 Hela whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human HL-60 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: mouse testis tissue 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-MTMR2 antigen affinity purified polyclonal antibody (#AAA126365) 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 MTMR2 at approximately 73 kDa. The expected band size for MTMR2 is at 73 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MTMR2 antibody	Myotubularin-related protein 2 also known as phosphatidylinositol-3,5-bisphosphate 3-phosphatase or phosphatidylinositol-3-phosphate phosphatase is a protein that in humans is encoded by the MTMR2 gene. This gene is a member of the myotubularin family of phosphoinositide lipid phosphatases. The encoded protein possesses phosphatase activity towards phosphatidylinositol-3-phosphate and phosphatidylinositol-3,5-bisphosphate. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4B, an autosomal recessive demyelinating neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been found for this gene.
Product Categories/Family for anti-MTMR2 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	343790884
NCBI GeneID	8898
NCBI Accession #	NP_001230500
NCBI GenBank Nucleotide #	NM_016156
UniProt Accession #	Q13614 ; Q9UPS9 ; A6NN98
NCBI Official Full Name	myotubularin-related protein 2 isoform 2
NCBI Official Synonym Full Names	myotubularin related protein 2
NCBI Official Symbol	MTMR2
NCBI Official Synonym Symbols	CMT4B; CMT4B1
NCBI Protein Information	myotubularin-related protein 2; phosphatidylinositol-3,5-bisphosphate 3-phosphatase; phosphatidylinositol-3-phosphate phosphatase
UniProt Protein Name	Myotubularin-related protein 2
UniProt Gene Name	MTMR2
UniProt Entry Name	MTMR2_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.