

MTMR6 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16543A

Specification

MTMR6 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9Y217
Other Accession	NP_004676.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71968
Antigen Region	114-143

MTMR6 Antibody (N-term) - Additional Information

Gene ID 9107

Other Names

Myotubularin-related protein 6, 313-, MTMR6

Target/Specificity

This MTMR6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 114-143 amino acids from the N-terminal region of human MTMR6.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MTMR6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MTMR6 Antibody (N-term) - Protein Information

Name MTMR6 ([HGNC:7453](#))

Function Lipid phosphatase that specifically dephosphorylates the D-3 position of

phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate, generating phosphatidylinositol and phosphatidylinositol 5-phosphate (PubMed:[19038970](#), PubMed:[22647598](#)). Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P₂) but also to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), and phosphatidylinositol 5-phosphate (PtdIns(5)P), phosphatidic acid and phosphatidylserine (PubMed:[19038970](#)). Negatively regulates ER-Golgi protein transport (By similarity). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:[24591580](#)). Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4(+) T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate (PubMed:[15831468](#)). Negatively regulates proliferation of reactivated CD4(+) T-cells (PubMed:[16847315](#)). In complex with MTMR9, negatively regulates DNA damage-induced apoptosis (PubMed:[19038970](#), PubMed:[22647598](#)). The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels (PubMed:[19038970](#)).

Cellular Location

Cytoplasm. Endoplasmic reticulum-Golgi intermediate compartment. Endoplasmic reticulum. Cell projection, ruffle membrane {ECO:0000250|UniProtKB:Q8VE11}; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, perinuclear region. Note=Localizes to ruffles during EGF-induced macropinocytosis (By similarity). Colocalizes with MTMR9 to the perinuclear region (PubMed:19038970). Partially localizes to the endoplasmic reticulum (PubMed:19038970). Co-localizes with RAB1B to the endoplasmic reticulum-Golgi intermediate compartment and to the peri- Golgi region (By similarity). {ECO:0000250|UniProtKB:A0A0G2JXT6, ECO:0000250|UniProtKB:Q8VE11, ECO:0000269|PubMed:19038970}

Tissue Location

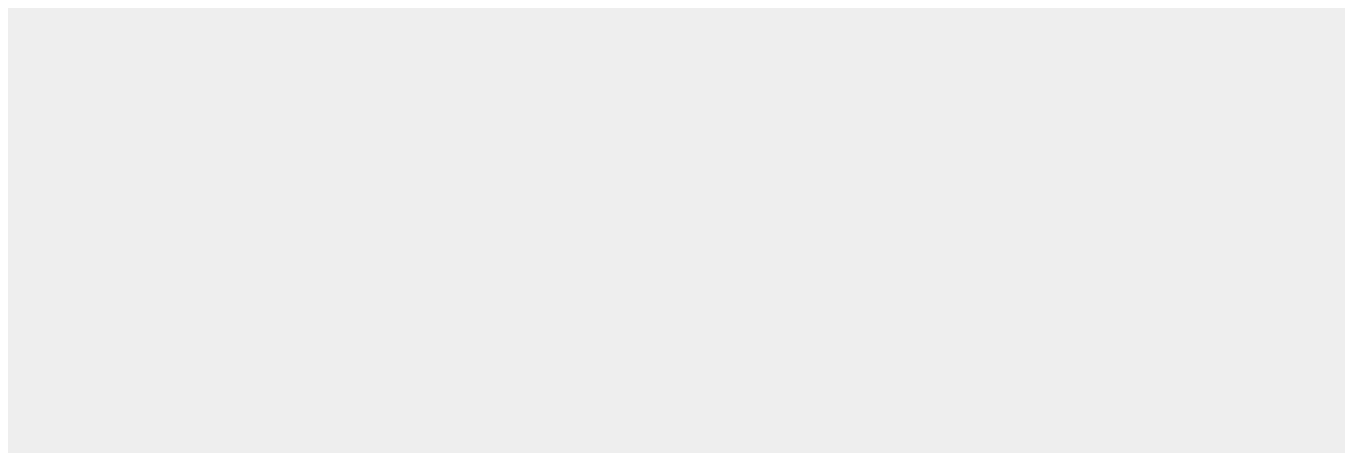
Expressed in CD4+ T-cells.

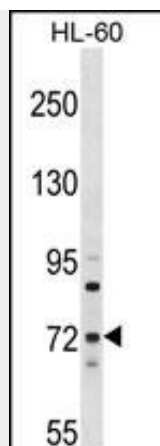
MTMR6 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MTMR6 Antibody (N-term) - Images





MTMR6 Antibody (N-term) (Cat. #AP16543a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the MTMR6 antibody detected the MTMR6 protein (arrow).

MTMR6 Antibody (N-term) - Background

Phosphatase that acts on lipids with a phosphoinositol headgroup. Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4+ T-cells possibly by decreasing intracellular levels of phosphatidylinositol-3 phosphatase. Negatively regulates proliferation of reactivated CD4+ T-cells.

MTMR6 Antibody (N-term) - References

- Zou, J., et al. J. Biol. Chem. 284(4):2064-2071(2009)
- Olsen, J.V., et al. Cell 127(3):635-648(2006)
- Olsen, J.V., et al. Cell 127(3):635-648(2006)
- Srivastava, S., et al. Mol. Cell. Biol. 26(15):5595-5602(2006)
- Srivastava, S., et al. Mol. Cell. Biol. 25(9):3630-3638(2005)