

MTMR2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14408a**Specification**

MTMR2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q13614](#)**MTMR2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8898**Other Names**

Myotubularin-related protein 2, Phosphatidylinositol-3, 5-bisphosphate 3-phosphatase, Phosphatidylinositol-3-phosphate phosphatase, MTMR2, KIAA1073

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MTMR2 Antibody (N-term) Blocking Peptide - Protein Information**Name** MTMR2 ([HGNC:7450](#))**Synonyms** KIAA1073**Function**

Phosphatase that acts on lipids with a phosphoinositol headgroup. Has phosphatase activity towards phosphatidylinositol 3- phosphate and phosphatidylinositol 3,5-bisphosphate (PubMed:11733541, PubMed:12668758, PubMed:21372139, PubMed:14690594). Binds phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate, phosphatidylinositol 3,5-bisphosphate and phosphatidylinositol 3,4,5- trisphosphate (By similarity). Stabilizes SBF2/MTMR13 at the membranes (By similarity). Specifically in peripheral nerves, stabilizes SBF2/MTMR13 protein (By similarity).

Cellular Location

Cytoplasm. Early endosome membrane; Peripheral membrane protein. Cytoplasm, perinuclear region. Cell projection, axon {ECO:0000250|UniProtKB:Q9Z2D1}. Endosome membrane {ECO:0000250|UniProtKB:Q9Z2D1}; Peripheral membrane protein. Note=Partly associated with

membranes (PubMed:12668758, PubMed:15998640, PubMed:21372139). Localizes to vacuoles in hypo- osmotic conditions (By similarity). {ECO:0000250|UniProtKB:Q9Z2D1, ECO:0000269|PubMed:12668758, ECO:0000269|PubMed:15998640, ECO:0000269|PubMed:21372139}

MTMR2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MTMR2 Antibody (N-term) Blocking Peptide - Images

MTMR2 Antibody (N-term) Blocking Peptide - Background

This gene is a member of the myotubularin family. 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. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

MTMR2 Antibody (N-term) Blocking Peptide - References

Kim, Y.C., et al. Proc. Natl. Acad. Sci. U.S.A. 106(20):8278-8283(2009) Lecompte, O., et al. Trends Biochem. Sci. 33(10):453-460(2008) Nicot, A.S., et al. Traffic 9(8):1240-1249(2008) Chojnowski, A., et al. Neurobiol. Dis. 26(2):323-331(2007) Previtali, S.C., et al. Expert Rev Mol Med 9(25):1-16(2007)