

**MTMR3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6803a****Specification****MTMR3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q13615](#)**MTMR3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID 8897****Other Names**

Myotubularin-related protein 3, FYVE domain-containing dual specificity protein phosphatase 1, FYVE-DSP1, Phosphatidylinositol-3, 5-bisphosphate 3-phosphatase, Phosphatidylinositol-3-phosphate phosphatase, Zinc finger FYVE domain-containing protein 10, MTMR3, KIAA0371, ZFYVE10

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6803a>AP6803a</a> was selected from the C-term region of human MTMR3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**MTMR3 Antibody (C-term) Blocking Peptide - Protein Information****Name MTMR3 ([HGNC:7451](#))****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:<a href="http://www.uniprot.org/citations/10733931" target="\_blank">10733931</a>, PubMed:<a href="http://www.uniprot.org/citations/11302699" target="\_blank">11302699</a>, PubMed:<a href="http://www.uniprot.org/citations/11676921" target="\_blank">11676921</a>, PubMed:<a href="http://www.uniprot.org/citations/12646134" target="\_blank">12646134</a>). Decreases the levels of phosphatidylinositol 3-phosphate, a phospholipid found in cell membranes where it acts as key regulator of both cell signaling and intracellular membrane traffic (PubMed:<a href="http://www.uniprot.org/citations/11302699" target="\_blank">11302699</a>).

target="\_blank">11302699</a>, PubMed:<a href="http://www.uniprot.org/citations/11676921" target="\_blank">11676921</a>, PubMed:<a href="http://www.uniprot.org/citations/12646134" target="\_blank">12646134</a>). Could also have a molecular sequestering/adapter activity and regulate biological processes independently of its phosphatase activity. It includes the regulation of midbody abscission during mitotic cytokinesis (PubMed:<a href="http://www.uniprot.org/citations/25659891" target="\_blank">25659891</a>).

#### **Cellular Location**

Cytoplasm, cytosol. Membrane; Peripheral membrane protein

#### **MTMR3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **MTMR3 Antibody (C-term) Blocking Peptide - Images**

#### **MTMR3 Antibody (C-term) Blocking Peptide - Background**

MRMT3 is a dual-specificity protein phosphatase that can dephosphorylate proteins at serine, threonine, and tyrosine residues. This protein is structurally similar to myotubularin but in addition contains a FYVE domain, a double zinc finger motif which specifically binds phosphatidylinositol(3)-phosphate. The encoded protein has been observed to have a perinuclear, possibly membrane-bound, distribution in cells, but it has also been found free in the cytoplasm.

#### **MTMR3 Antibody (C-term) Blocking Peptide - References**

Laporte, J., et al., Biochem. Biophys. Res. Commun. 291(2):305-312 (2002).Walker, D.M., et al., Curr. Biol. 11(20):1600-1605 (2001).Zhao, R., et al., Biochem. Biophys. Res. Commun. 270(1):222-229 (2000).Laporte, J., et al., Hum. Mol. Genet. 7(11):1703-1712 (1998).Laporte, J., et al., Nat. Genet. 13(2):175-182 (1996).