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MTMR4 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6804a

Specification

MTMR4 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q9NYA4
Other Accession	NM_004687

MTMR4 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 9110

Other Names
Myotubularin-related protein 4, FYVE domain-containing dual specificity protein phosphatase 2, FYVE-DSP2, Zinc finger FYVE domain-containing protein 11, MTMR4, KIAA0647, ZFYVE11

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6804a was selected from the C-term region of human MTMR4 . 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.

MTMR4 Antibody (C-term) Blocking Peptide - Protein Information

Name MTMR4

Synonyms KIAA0647, ZFYVE11

Function
Dephosphorylates proteins phosphorylated on Ser, Thr, and Tyr residues and low molecular weight phosphatase substrate para- nitrophenylphosphate. Phosphorylates phosphatidylinositol 3,4,5-trisphosphate (PIP3).

Cellular Location
Cytoplasm. Membrane; Peripheral membrane protein. Note=Localized to perinuclear region

Tissue Location

Expressed in brain, heart, kidney, spleen, liver, colon, testis, muscle, placenta, thyroid gland, pancreas, ovary, prostate, skin, peripheral blood, and bone marrow

MTMR4 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MTMR4 Antibody (C-term) Blocking Peptide - Images

MTMR4 Antibody (C-term) Blocking Peptide - Background

MTMR, a member of the myotubularin family, encodes an intracellular protein of 1,195 amino acids, and shares approximately 47% sequence identity with MTMR3, spiking to over 70% identity in the catalytic domain and the double zinc finger (FYVE) motif. PCR analysis detects expression of MTMR4 in all human tissues examined except lung, small intestine, stomach, salivary gland, adrenal gland, and uterus. Subcellular localization of MTMR4 in transfected HeLa cells showed a perinuclear distribution, similar to that seen with MTMR3. MTMR4 dephosphorylates para-nitrophenylphosphate and phosphatidylinositol 3-phosphate.