

MTMR13 Rabbit pAb

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Catalog # AP56625

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86WG5
Predicted	Rat, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	208464
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MTMR13
Epitope Specificity	1701-1800/1849
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell Membrane and Cytoplasmic. Peripheral membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a pseudophosphatase and member of the myotubularin-related protein family. This gene maps within the CMT4B2 candidate region of chromosome 11p15 and mutations in this gene have been associated with Charcot-Marie-Tooth Disease, type 4B2. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	81846
Other Names	Myotubularin-related protein 13, Inactive phosphatidylinositol 3-phosphatase 13, SET-binding factor 2, SBF2, CMT4B2, KIAA1766, MTMR13
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SBF2
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Synonyms	CMT4B2, KIAA1766, MTMR13
Function	Guanine nucleotide exchange factor (GEF) which activates RAB21 and possibly RAB28 (PubMed: 20937701 , PubMed: 25648148). Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form (PubMed: 20937701 , PubMed: 25648148). In response to starvation-induced autophagy, activates RAB21 which in turn binds to and regulates SNARE protein VAMP8 endolysosomal transport required for SNARE-mediated autophagosome-lysosome fusion (PubMed: 25648148). Acts as an adapter for the phosphatase MTMR2 (By similarity). Increases MTMR2 catalytic activity towards phosphatidylinositol 3,5-bisphosphate and to a lesser extent towards phosphatidylinositol 3-phosphate (By similarity).
Cellular Location	Cytoplasm. Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:E9PXF8}. Membrane; Peripheral membrane protein. Endosome membrane {ECO:0000250 UniProtKB:E9PXF8}; Peripheral membrane protein. Cell projection, axon {ECO:0000250 UniProtKB:E9PXF8} Note=Associated with membranes (PubMed:15998640). Localizes to vacuoles in hypo-osmotic conditions (By similarity). Membrane localization is likely to be mediated via its interaction with MTMR2 (By similarity) {ECO:0000250 UniProtKB:E9PXF8, ECO:0000269 PubMed:15998640}
Tissue Location	Widely expressed. Expressed in spinal cord.

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