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# MTMR13 Rabbit pAb

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Catalog # AP56625

## Product Information

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| **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

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| **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=1:5000-10000 |
| **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

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| **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. |

## Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.