

MTMR2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54613

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q13614
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73381

Additional Information

Gene ID	8898
Other Names	Myotubularin-related protein 2, Phosphatidylinositol-3, 5-bisphosphate 3-phosphatase, 3.1.3.95, Phosphatidylinositol-3-phosphate phosphatase, 3.1.3.64, MTMR2 (HGNC:7450), KIAA1073
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=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

Name	MTMR2 (HGNC:7450)
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: 11733541 , PubMed: 12668758 , PubMed: 14690594 , PubMed: 21372139). Regulates the level of these phosphoinositides critical for various biological processes including autophagy initiation and autophagosome maturation (PubMed: 35580604).
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,

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