

MTM1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6809b

Product Information

Application	WB, E
Primary Accession	Q13496
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB0856
Antigen Region	566-594

Additional Information

Other Names	Myotubularin, Phosphatidylinositol-3, 5-bisphosphate 3-phosphatase, Phosphatidylinositol-3-phosphate phosphatase, MTM1, CG2
Target/Specificity	This MTM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 566-594 amino acids from the C-terminal region of human MTM1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MTM1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

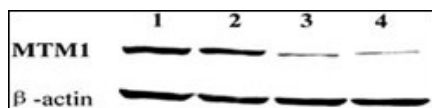
Background

MTM1 is a member of a protein family that encodes tyrosine phosphatases. Myotubularin is required for muscle cell differentiation and mutations in MTM1 have been identified as being responsible for X-linked myotubular myopathy. MTM1 is a potent phosphatidylinositol 3-phosphate phosphatase (PI(3)P). Mutations in the MTM1 gene that cause human myotubular myopathy dramatically reduce the ability of the phosphatase to dephosphorylate PI(3)P. The findings provided evidence that myotubularin exerts its effects during myogenesis by regulating the cellular levels of the inositol lipid PI(3)P.

References

Nandurkar, H.H., et al., Proc. Natl. Acad. Sci. U.S.A. 100(15):8660-8665 (2003).
Biancalana, V., et al., Hum. Genet. 112(2):135-142 (2003).
Wishart, M.J., et al., Trends Cell Biol. 12(12):579-585 (2002).
Herman, G.E., et al., Hum. Mutat. 19(2):114-121 (2002).
Sutton, I.J., et al., Neurology 57(5):900-902 (2001).

Images



Western blot showing knockdown of endogenous MTM1 expression by MTM1-targeting vectors pDM134 and pDM170. Embryonic stem (ES) cells were untreated (lane 1) or transfected with control plasmid pDCont (lane 2), MTM1-targeting plasmid pDM134 (lane 3), or pDM170 (lane 4). The blot was probed with anti-MTM1 rabbit polyclonal antibodies. -Actin was used as a loading control.

Citations

- [A cDNA-based random RNA interference library for functional genetic screens in embryonic stem cells.](#)

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