

Rabbit anti-Human, mouse MTM1 Polyclonal Antibody | anti-MTM1 antibody

MTM1 Antibody (C-term)

CATALOG # AAA284415	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

MTM1; Polyclonal Antibody; MTM1 Antibody (C-term); Myotubularin; Phosphatidylinositol-3; 5-bisphosphate 3-phosphatase; Phosphatidylinositol-3-phosphate phosphatase; CG2; anti-MTM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	566-594
Sequence Length	566
Applicable Applications for anti-MTM1 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

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.



WB (Western Blot)

The anti-MTM1 C-term Pab is used in Western blot to detect MTM1 in NCI-H460 cell lysate (lane 1) and in mouse heart tissue lysate (lane 2).

ADDITIONAL INFORMATION

Related Product Information for anti-MTM1 antibody	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.
Product Categories/Family for anti-MTM1 antibody	Cell Biology; Signal transduction
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557896
NCBI GeneID	4534
NCBI Accession #	NP_000243.1
NCBI GenBank Nucleotide #	NM_000252.2
UniProt Accession #	Q13496; Q8NEL1; A6NDB1; B7Z491; F2Z330
Molecular Weight	69932
NCBI Official Full Name	myotubularin
NCBI Official Synonym Full Names	myotubularin 1
NCBI Official Symbol	MTM1
NCBI Official Synonym Symbols	CNM; MTMX; XLMTM
NCBI Protein Information	myotubularin
UniProt Protein Name	Myotubularin
UniProt Gene Name	MTM1
UniProt Synonym Gene Names	CG2
UniProt Entry Name	MTM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.