

Rabbit MTM1 Polyclonal Antibody | anti-MTM1 antibody

MTM1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325858	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MTM1; Polyclonal Antibody; MTM1 Antibody; AF073996; CG2; CNM; KIAA4176; mKIAA4176; Mtm; Mtm1; MTM1_HUMAN; MTMX; Myotubular myopathy 1; Myotubularin; XLMTM; anti-MTM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MTM1 antibody detects endogenous levels of total MTM1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	603
Applicable Applications for anti-MTM1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MTM1
Subcellular Location	Cytoplasm. Cell Membrane. Cell Projection > Filopodium. Cell Projection > Ruffle. Late Endosome. Localizes as a dense cytoplasmic network. Also localizes to the plasma membrane, including plasma membrane extensions such as filopodia and ruffles. Predominantly located in the cytoplasm following interaction with MTMR12. Recruited to the late endosome following EGF stimulation.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Xenopus
Similarity	Pig (82%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (90%), Xenopus (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325858 at 1/100 staining Human lung cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of mouse liver tissue using MTM1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MTM1 antibody

Description: This gene encodes a dual-specificity phosphatase that acts on both phosphotyrosine and phosphoserine. It is required for muscle cell differentiation and mutations in this gene have been identified as being responsible for X-linked myotubular myopathy. [provided by RefSeq, Jul 2008]
Function: Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3, 5-bisphosphate (PI(3, 5)P2). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides. Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome. Plays a role in vacuolar formation and morphology. Regulates desmin intermediate filament assembly and architecture. Plays a role in mitochondrial morphology and positioning. Required for skeletal muscle maintenance but not for myogenesis.
Subunit Structure: Interacts with MTMR12; the interaction modulates MTM1 intracellular localization. Interacts with KMT2A/MLL1 (via SET domain). Interacts with DES in skeletal muscle but not in cardiac muscle. Interacts with SPEG.
Similarity: The GRAM domain mediates binding to PI(3, 5)P2 and, with lower affinity, to other phosphoinositides. Belongs to the protein-tyrosine phosphatase family. Non-receptor class myotubularin subfamily.

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	Observed: 70 kDa Predicted: 70 kDa
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

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.