

# Myotubularin Polyclonal Antibody

Catalog # AP71135

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q13496</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	69932

## Additional Information

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<b>Gene ID</b>	4534
<b>Other Names</b>	MTM1; CG2; Myotubularin
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. IHC-P--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	MTM1 ( <a href="#">HGNC:7448</a> )
<b>Synonyms</b>	CG2
<b>Function</b>	Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2) (PubMed: <a href="#">10900271</a> , PubMed: <a href="#">11001925</a> , PubMed: <a href="#">12646134</a> , PubMed: <a href="#">14722070</a> ). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides (PubMed: <a href="#">9537414</a> ). Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome (PubMed: <a href="#">14722070</a> ). Plays a role in vacuolar formation and morphology. Regulates desmin intermediate filament assembly and architecture (PubMed: <a href="#">21135508</a> ). Plays a role in mitochondrial morphology and positioning (PubMed: <a href="#">21135508</a> ). Required for skeletal muscle maintenance but not for myogenesis (PubMed: <a href="#">21135508</a> ). In skeletal muscles, stabilizes MTMR12 protein levels (PubMed: <a href="#">23818870</a> ).
<b>Cellular Location</b>	Cytoplasm. Cell membrane; Peripheral membrane protein. Cell projection, filopodium. Cell projection, ruffle. Late endosome. Cytoplasm, myofibril, sarcomere {ECO:0000250 UniProtKB:Q9Z2C5}. Note=Localizes as a dense

cytoplasmic network (PubMed:11001925). Also localizes to the plasma membrane, including plasma membrane extensions such as filopodia and ruffles (PubMed:12118066). Predominantly located in the cytoplasm following interaction with MTMR12 (PubMed:12847286). Recruited to the late endosome following EGF stimulation (PubMed:14722070). In skeletal muscles, co-localizes with MTMR12 in the sarcomere (By similarity) {ECO:0000250|UniProtKB:Q9Z2C5, ECO:0000269|PubMed:11001925, ECO:0000269|PubMed:12118066, ECO:0000269|PubMed:12847286, ECO:0000269|PubMed:14722070}

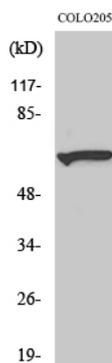
## Background

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Lipid phosphatase which dephosphorylates phosphatidylinositol 3-monophosphate (PI3P) and phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2) (PubMed:[11001925](#), PubMed:[10900271](#), PubMed:[12646134](#), PubMed:[14722070](#)). Has also been shown to dephosphorylate phosphotyrosine- and phosphoserine-containing peptides (PubMed:[9537414](#)). Negatively regulates EGFR degradation through regulation of EGFR trafficking from the late endosome to the lysosome (PubMed:[14722070](#)). Plays a role in vacuolar formation and morphology. Regulates desmin intermediate filament assembly and architecture (PubMed:[21135508](#)). Plays a role in mitochondrial morphology and positioning (PubMed:[21135508](#)). Required for skeletal muscle maintenance but not for myogenesis (PubMed:[21135508](#)). In skeletal muscles, stabilizes MTMR12 protein levels (PubMed:[23818870](#)).

## Images

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Western Blot analysis of various cells using Myotubularin Polyclonal Antibody diluted at 1 : 500

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