

For Research Use Only

MTM1 Polyclonal antibody

Catalog Number: 13924-1-AP **1 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 13924-1-AP | GenBank Accession Number: BC030779 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 700 ug/ml by Nanodrop; | GeneID (NCBI): 4534 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:200-1:800 |
| Source: Rabbit | UNIPROT ID: Q13496 | |
| Isotype: IgG | Full Name: myotubularin 1 | |
| Immunogen Catalog Number: AG4940 | Calculated MW: 70 kDa | |
| | Observed MW: 65-70 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB : L02 cells, Jurkat cells |
| Cited Applications: WB | IHC : rat skeletal muscle tissue, mouse skeletal muscle tissue |
| Species Specificity: human, mouse, rat | IF/ICC : L02 cells, |
| Cited Species: pig | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

The MTM1(Myotubularin) gene encodes a protein that belongs to a family of putative tyrosine phosphatases. It is required for muscle cell differentiation. The protein is also a potent phosphatidylinositol 3-phosphate (PI3P) phosphatase, which is a 66 kDa ubiquitous protein that is found mutated in the X-linked genetic disorder myotubular myopathy(XLMTM).MTM1 could therefore act as a regulator of the highly active phosphoinositide (PI) metabolism in cells, where interconversions of the eight PIs described so far is controlled by a set of specific kinases and phosphatases(PMID:14660569). MTM1 has two isoforms with the molecular mass of 66kDa and 70 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------|-------------|
| Bing-Qian Su | 38295116 | PLoS Pathog | WB |

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

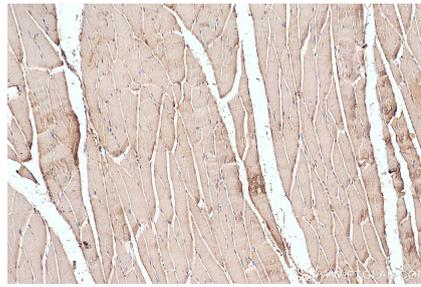
For technical support and original validation data for this product please contact:
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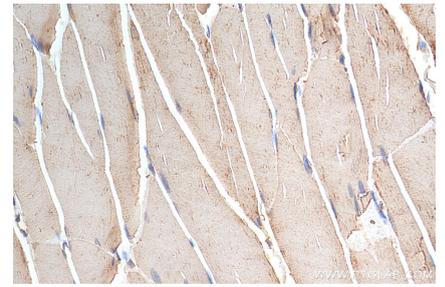
Selected Validation Data



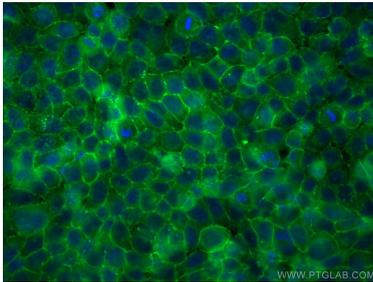
L02 cells were subjected to SDS PAGE followed by western blot with 13924-1-AP (MTM1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 13924-1-AP (MTM1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 13924-1-AP (MTM1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed L02 cells using MTM1 antibody (13924-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).