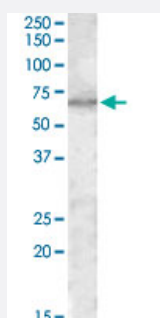


MTM1 polyclonal antibody

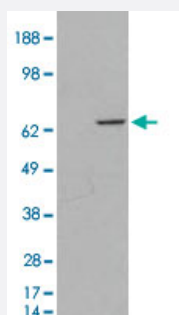
Catalog # PAB6061 Size 100 ug

Applications



Western Blot (Cell lysate)

MTM1 polyclonal antibody (Cat # PAB6061) staining (0.3 ug/mL) of HepG2 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

HEK293 overexpressing MTM1 and probed with MTM1 polyclonal antibody (Cat # PAB6061) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of MTM1.
Immunogen	A synthetic peptide corresponding to human MTM1.
Sequence	C-SSPSQMMPHVQTHF
Host	Goat
Theoretical MW (kDa)	69.9
Reactivity	Human
Form	Liquid

Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000) Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

MTM1 polyclonal antibody (Cat # PAB6061) staining (0.3 ug/mL) of HepG2 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

HEK293 overexpressing MTM1 and probed with MTM1 polyclonal antibody (Cat # PAB6061) (mock transfection in first lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MTM1

Entrez GeneID	4534
Protein Accession#	NP_000243.1
Gene Name	MTM1
Gene Alias	CNM, MTMX, XLMTM
Gene Description	myotubularin 1
Omim ID	300415 310400
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

myotubularin

Publication Reference

- [Semirational bioengineering of AAV vectors with increased potency and specificity for systemic gene therapy of muscle disorders.](#)

Jihad El Andari, Edith Renaud-Gabardos, Warut Tulalamba, Jonas Weinmann, Louise Mangin, Quang Hong Pham, Susanne Hille, Antonette Bennett, Esther Attebi, Emanuele Bourges, Christian Leborgne, Nicolas Guerchet, Julia Fakhiri, Chiara Krämer, Ellen Wiedtke, Robert McKenna, Laurence Guianvarc'h, Magali Toueille, Giuseppe Ronzitti, Matthias Hebben, Federico Mingozzi, Thierry VandenDriessche, Mavis Agbandje-McKenna, Oliver J Müller, Marinee K Chuah, Ana Buj-Bello, Dirk Grimm.

Science Advances 2022 Sep; 8(38):eabn4704.

Application: WB-Tr, Mouse, Mouse muscle

- [Directed evolution of a family of AAV capsid variants enabling potent muscle-directed gene delivery across species.](#)

Mohammadsharif Tabebordbar, Kim A Lagerborg, Alexandra Stanton, Emily M King, Simon Ye, Liana Tellez, Allison Krunnusz, Sahar Tavakoli, Jeffrey J Widrick, Kathleen A Messemer, Emily C Troiano, Behzad Moghadaszadeh, Bryan L Peacker, Krystynne A Leacock, Naftali Horwitz, Alan H Beggs, Amy J Wagers, Pardis C Sabeti.

Cell 2021 Sep; 184(19):4919.

Application: WB-Ti, WB-Tr, Mouse, Mouse muscles

- [A gene mutated in X-linked myotubular myopathy defines a new putative tyrosine phosphatase family conserved in yeast.](#)

Laporte J, Hu LJ, Kretz C, Mandel JL, Kioschis P, Coy JF, Klauck SM, Poustka A, Dahl N.

Nature Genetics 1996 Jun; 13(2):175.

Disease

- [Colorectal Neoplasms](#)
- [Microsatellite Instability](#)
- [Stomach Neoplasms](#)