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# Datasheet for ABIN390784 anti-MTM1 antibody (C-Term)

2 Images

1 Publication



### Overview

Quantity:	400 µL
Target:	MTM1
Binding Specificity:	AA 566-594, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTM1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	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.
Clone:	RB0856
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	MTM1
Alternative Name:	MTM1 (MTM1 Products)

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## **Target Details** MTM1 is a member of a protein family that encodes tyrosine phosphatases. Myotubularin is Background: 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 3phosphate 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. 69932 Molecular Weight: Gene ID: 4534 NCBI Accession: NP\_000243 UniProt: Q13496 Pathways: Inositol Metabolic Process, Skeletal Muscle Fiber Development **Application Details** Application Notes: WB: 1:2000. WB: 1:1000 **Restrictions:** For Research Use only Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months
Publications	
Product cited in:	Murakami, Ito, Hagiwara, Yoshida, Sobue, Ichihara, Takagi, Kojima, Tanaka, Tamiya-Koizumi,

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### Images



#### Western Blotting

**Image 1.** Western blot showing knockdown of endogenous MTM1 expression by MTM1-targeting vectors pD and pD. Embryonic stem (ES) cells were untreated (lane 1) or transfected with control plasmid pDCont (lane 2), MTM1-targeting plasmid pD (lane 3), or pD (lane 4). The blot was probed with anti-MTM1 rabbit polyclonal antibodies. -Actin was used as a loading control.



#### **Western Blotting**

**Image 2.** All lanes : Anti-hMTM1- at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 70 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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