

MTM1 Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide sequence (SSPSQMMPHVQTHF) corresponding to the C-terminus amino acids of MTM1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Ammonium sulfate precipitation
Storage buffer	TBS, pH 7.3, with 0.5% BSA
Contains	0.02% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_11002306

Applications

Tested Dilution

Publications

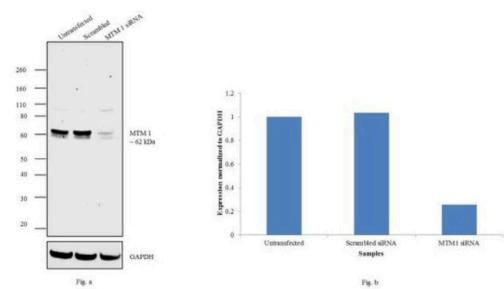
Western Blot (WB)	1-3 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-

Product Specific Information

This antibody is predicted to react with bovine, canine and mouse based on sequence homology.

This antibody is tested in Peptide ELISA: antibody detection limit dilution 16,000.

Product Images For MTM1 Polyclonal Antibody

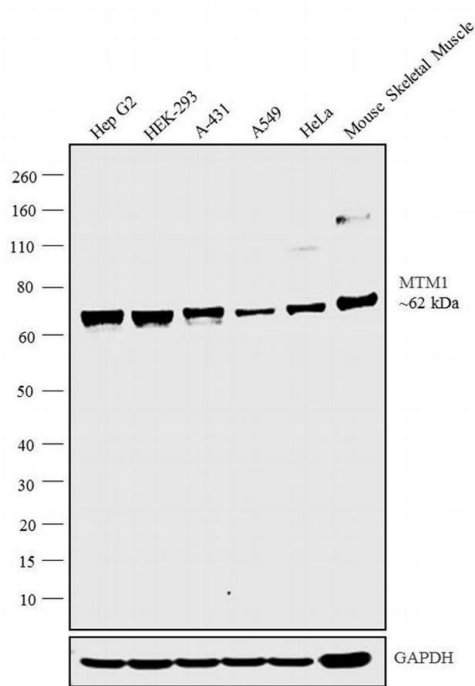


MTM1 Antibody (PA5-17972)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Hep G2 cells were transfected with MTM 1 siRNA and loss of signal was observed in Western Blot using Anti-MTM 1 Polyclonal Antibody (Product # PA5-17972). {KD}

MTM1 Antibody (PA5-17972) in WB

Western blot analysis was performed membrane enriched extracts (30 µg lysate) of Hep G2 (Lane 1), HEK-293 (Lane 2), A-431 (Lane 3), A549 (Lane 4), HeLa (Lane 5) and tissue extract of Mouse Skeletal Muscle (Lane 6). The blot was probed with Anti-MTM1 antibody (Product # PA5-17972, 1µg/mL) and detected by chemiluminescence using Rabbit anti-Goat IgG Heavy Chain Superclonal™ Secondary Antibody, HRP conjugate (Product # A27014, 0.25 µg/mL, 1:4000 dilution). A 62 kDa band corresponding to MTM1 was observed across the cell lines and tissue tested.



MTM1 Antibody (PA5-17972) in WB

Knockdown of MTM 1 was achieved by transfecting Hep G2 cells with MTM 1 specific siRNAs (Silencer® select Product # s9041). Western blot analysis (Fig. a) was performed using whole cell extracts from the MTM 1 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with MTM 1 Polyclonal Antibody (Product # PA5-17972, 1:250 dilution) and Rabbit anti-Goat IgG Heavy Chain Superclonal™ Secondary Antibody, HRP conjugate (Product # A27014, 0.25 µg/mL, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to MTM 1.

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Western Blot (1)

European journal of human genetics : EJHG	Year 2021
Pathogenic deep intronic MTM1 variant activates a pseudo-exon encoding a nonsense codon resulting in severe X-linked myotubular myopathy.	Species Human
<p>"PA5-17972 was used in Western Blot to report a novel deep intronic MTM1 variant NG_008199.1(NM_000252.2):c.1468-577A>G identified by whole genome sequencing in an individual with severe hypotonia, no respiratory effort at birth and centralised nuclei on muscle biopsy."</p> <p>Authors: Bryen SJ,Oates EC,Evesson FJ,Lu JK,Waddell LB,Joshi H,Ryan MM,Cummings BB,McLean CA,MacArthur DG,Kornberg AJ,Cooper ST</p>	

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