

Rabbit anti-Human TRMU Polyclonal Antibody | anti-TRMU antibody

TRMU Antibody (Center)

CATALOG # AAA286332	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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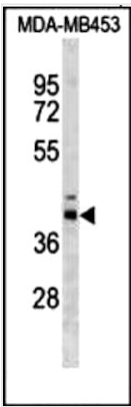
PRODUCT SYNONYMS

TRMU; Polyclonal Antibody; TRMU Antibody (Center); Mitochondrial tRNA-specific 2-thiouridylase 1; 281-; MTO2 homolog; MTU1; TRMT1; anti-TRMU antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This TRMU antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 128-154 amino acids from the Central region of human TRMU.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	128-154
Sequence Length	421
Applicable Applications for anti-TRMU antibody	ELISA, WB (Western Blot)
Function	Catalyzes the 2-thiolation of uridine at the wobble position (U34) of mitochondrial tRNA(Lys), tRNA(Glu) and tRNA(Gln). Required for the formation of 5-taurinomethyl-2-thiouridine (tm5s2U) of mitochondrial tRNA(Lys), tRNA(Glu), and tRNA(Gln) at the wobble position. ATP is required to activate the C2 atom of the wobble base.
Cellular Location	Mitochondrion
Tissue Location	Ubiquitous. Abundantly expressed in tissues with high metabolic rates including heart, liver, kidney, and brain
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
TRMU Antibody (Center) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TRMU antibody detected the TRMU protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-TRMU antibody	This gene is a member of the trmU family. It encodes a mitochondria-specific tRNA-modifying enzyme that is required for the 2-thio modification of 5-taurinomethyl-2-thiouridine tRNA-Lys on the wobble position of the anticodon.
Product Categories/Family for anti-TRMU antibody	Metabolism; Neuroscience
References	Zeharia, A., et al. Am. J. Hum. Genet. 85(3):401-407(2009) Reiling, E., et al. Eur. J. Hum. Genet. 17(8):1056-1062(2009) de Moraes, V.C., et al. Biochem. Biophys. Res. Commun. 381(2):210-213(2009) Otaegui, D., et al. Audiol. Neurotol. 13(5):320-327(2008) Guan, M.X., et al. Am. J. Hum. Genet. 79(2):291-302(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542641
NCBI GeneID	55687
NCBI Accession #	NP_060476.2
NCBI GenBank Nucleotide #	NM_018006.4
UniProt Accession #	O75648; Q05C99; Q5W9C8; Q66K31; Q6ICC3; Q9NWC1; A8K3U7
Molecular Weight	47745
NCBI Official Full Name	mitochondrial tRNA-specific 2-thiouridylase 1 isoform a
NCBI Official Synonym Full Names	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase
NCBI Official Symbol	TRMU
NCBI Official Synonym Symbols	MTO2; MTU1; TRMT; TRMT1; TRNT1
NCBI Protein Information	mitochondrial tRNA-specific 2-thiouridylase 1
UniProt Protein Name	Mitochondrial tRNA-specific 2-thiouridylase 1
UniProt Gene Name	TRMU
UniProt Synonym Gene Names	MTU1; TRMT1
UniProt Entry Name	MTU1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/trmu-antibody-western-blot-elisa/286332>