

TRMU Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19094C**Specification**

TRMU Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O75648
Other Accession	NP_060476.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47745
Antigen Region	128-154

TRMU Antibody (Center) - Additional Information**Gene ID** 55687**Other Names**

Mitochondrial tRNA-specific 2-thiouridylase 1, 281-, MTO2 homolog, TRMU, MTU1, TRMT1

Target/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.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

Precautions

TRMU Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TRMU Antibody (Center) - Protein Information**Name** TRMU**Synonyms** MTU1, TRMT1

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

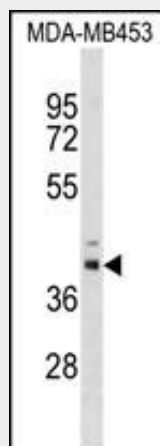
Ubiquitous. Abundantly expressed in tissues with high metabolic rates including heart, liver, kidney, and brain

TRMU Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TRMU Antibody (Center) - Images



TRMU Antibody (Center) (Cat. #AP19094c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TRMU antibody detected the TRMU protein (arrow).

TRMU Antibody (Center) - Background

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.

TRMU Antibody (Center) - 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)