

TRMU Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP19094c**Specification**

TRMU Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O75648](#)**TRMU Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 55687**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRMU Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TRMU Antibody (Center) Blocking Peptide - Images

TRMU Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)