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TUFM Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12916b

Specification

TUFM Antibody (C-term) Blocking peptide - Product Information

Primary Accession P49411

TUFM Antibody (C-term) Blocking peptide - Additional Information

Gene ID 7284

Other Names
Elongation factor Tu, mitochondrial, EF-Tu, P43, TUFM

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.

TUFM Antibody (C-term) Blocking peptide - Protein Information

Name TUFM

Function
Promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. Plays also a role in the regulation of autophagy and innate immunity. Recruits ATG5-ATG12 and NLRX1 at mitochondria and serves as a checkpoint of the RIG- I/DDX58-MAVS pathway. In turn, inhibits RLR-mediated type I interferon while promoting autophagy.

TUFM Antibody (C-term) Blocking peptide - Background

This gene encodes a protein which participates in proteintranslation in mitochondria. Mutations in this gene have beenassociated with combined oxidative phosphorylation deficiencyresulting in lactic acidosis and fatal encephalopathy. A pseudogenehas been identified on chromosome 17.

TUFM Antibody (C-term) Blocking peptide - References

Valente, L., et al. Biochim. Biophys. Acta 1792(8):791-795(2009)Sasarman, F., et al. Hum. Mol. Genet. 17(23):3697-3707(2008)Bogenhagen, D.F., et al. J. Biol. Chem. 283(6):3665-3675(2008)Lamesch, P., et al. Genomics 89(3):307-315(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

Cellular Location
Mitochondrion.

TUFM Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides