

**TUFM Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12916b****Specification**

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**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. Also plays a role in the regulation of autophagy and innate immunity. Recruits ATG5-ATG12 and NLRX1 at mitochondria and serves as a checkpoint of the RIGI-MAVS pathway. In turn, inhibits RLR-mediated type I interferon while promoting autophagy.

**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](#)

**TUFM Antibody (C-term) Blocking peptide - Images****TUFM Antibody (C-term) Blocking peptide - Background**

This gene encodes a protein which participates in protein translation in mitochondria. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency resulting in lactic acidosis and fatal encephalopathy. A pseudogene has 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) :