

**TUFM Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2918a****Specification**

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**TUFM Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [P49411](#)

**TUFM Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 7284

**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2918a](/products/AP2918a) was selected from the N-term region of human TUFM. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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 (N-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 (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TUFM Antibody (N-term) Blocking Peptide - Images**

#### **TUFM Antibody (N-term) Blocking Peptide - Background**

TUFM is a protein which participates in protein translation in mitochondria. This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.

#### **TUFM Antibody (N-term) Blocking Peptide - References**

Valente,L., et.al., Biochim. Biophys. Acta 1792 (8), 791-795 (2009) Bogenhagen,D.F., et.al., J. Biol. Chem. 283 (6), 3665-3675 (2008)