

**TSFM Antibody (C-term) Blocking Peptide**

Synthetic peptide

Catalog # BP16906b

**Specification**

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**TSFM Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession

[P43897](#)**TSFM Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 10102**Other Names**

Elongation factor Ts, mitochondrial {ECO:0000255|HAMAP-Rule:MF\_03135}, EF-Ts {ECO:0000255|HAMAP-Rule:MF\_03135}, EF-TsMt {ECO:0000255|HAMAP-Rule:MF\_03135}, TSFM {ECO:0000255|HAMAP-Rule:MF\_03135}

**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.

**TSFM Antibody (C-term) Blocking Peptide - Protein Information****Name** TSFM {ECO:0000255|HAMAP-Rule:MF\_03135}**Function**

Associates with the EF-Tu.GDP complex and induces the exchange of GDP to GTP. It remains bound to the aminoacyl-tRNA.EF- Tu.GTP complex up to the GTP hydrolysis stage on the ribosome.

**Cellular Location**

Mitochondrion.

**Tissue Location**

Expressed in all tissues, with the highest levels of expression in skeletal muscle, liver and kidney

**TSFM Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TSFM Antibody (C-term) Blocking Peptide - Images****TSFM Antibody (C-term) Blocking Peptide - Background**

This gene encodes a mitochondrial translation elongationfactor. The encoded protein is an enzyme that catalyzes the exchange of guanine nucleotides on the translation elongationfactor Tu during the elongation step of mitochondrial protein translation. Mutations in this gene are associated with combined oxidative phosphorylation deficiency-3 syndrome. Alternate splicing results in multiple transcript variants.

**TSFM Antibody (C-term) Blocking Peptide - References**

Wang, W., et al. Nucleic Acids Res. (2010) In press :Smeitink, J.A., et al. Am. J. Hum. Genet. 79(5):869-877(2006)Antonicka, H., et al. Hum. Mol. Genet. 15(11):1835-1846(2006)Vernon, J.L., et al. Cytogenet. Cell Genet. 89 (3-4), 145-146 (2000) :Xin, H., et al. J. Biol. Chem. 270(29):17243-17249(1995)