

#### TUFM Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20640a

#### Specification

# **TUFM Antibody (N-term) - Product Information**

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype IF, WB,E <u>P49411</u> <u>P85834</u>, <u>O8BFR5</u>, <u>P49410</u> Human, Mouse, Rat Bovine Rabbit Polyclonal Rabbit IgG

## **TUFM Antibody (N-term) - Additional Information**

Gene ID 7284

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

Target/Specificity

This TUFM antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 112-147 amino acids from the N-terminal region of human TUFM.

**Dilution** IF~~1:25 WB~~1:2000 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** 

TUFM Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## **TUFM Antibody (N-term) - Protein Information**

Name TUFM

Function GTP hydrolase that 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.

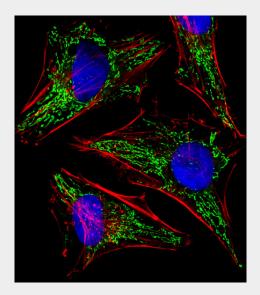
Cellular Location Mitochondrion.

#### **TUFM Antibody (N-term) - Protocols**

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

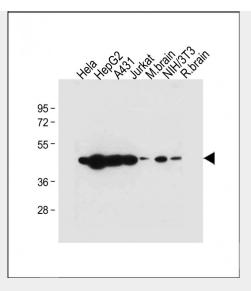
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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



Fluorescent image of Hela cells stained with TUFM Antibody (N-term)(Cat#AP20640a). AP20640a was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).





All lanes : Anti-TUFM Antibody (N-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: A431 whole cell lysate Lane 4: Jurkat whole cell lysate Lane 5: Mouse brain tissue lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: Rat brain whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## TUFM Antibody (N-term) - Background

This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.

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

Woriax V.L., et al. Biochim. Biophys. Acta 1264:347-356(1995). Wells J., et al. FEBS Lett. 358:119-125(1995). Ling M., et al. Gene 197:325-336(1997). Martin J., et al. Nature 432:988-994(2004). Dunn M.J., et al. Submitted (MAR-1996) to UniProtKB.