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TUFM Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2918a

Specification

TUFM Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P49411
Other Accession	P85834, Q8BFR5, P49410
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**75-104**

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 rabbits immunized with a KLH conjugated synthetic peptide between 75-104 amino acids from the N-terminal region of human TUFM.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

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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.

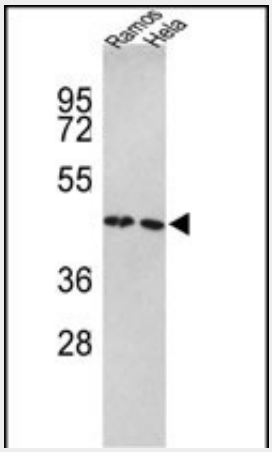
Cellular Location
Mitochondrion.

TUFM Antibody (N-term) - Protocols

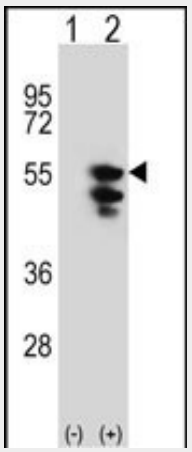
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TUFM Antibody (N-term) - Images

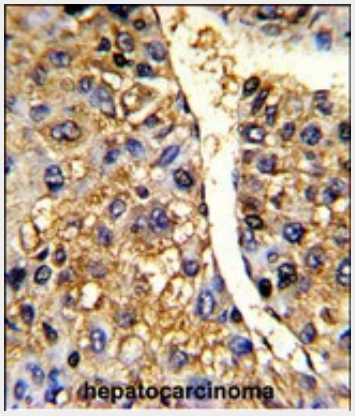


Western blot analysis of TUFM Antibody (N-term) (Cat. #AP2918a) in Ramos, Hela cell line lysates (35ug/lane). TUFM (arrow) was detected using the purified Pab.

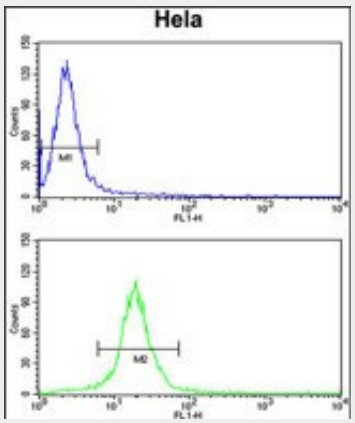


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Western blot analysis of TUFM (arrow) using rabbit polyclonal TUFM Antibody (N-term) (Cat. #AP2918a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TUFM gene.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with TUFM Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TUFM Antibody (N-term) (Cat.#AP2918a) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TUFM Antibody (N-term) - 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) - 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)

TUFM Antibody (N-term) - Citations

- TUFM downregulation induces epithelial-mesenchymal transition and invasion in lung cancer cells via a mechanism involving AMPK-GSK3β signaling.