

TUFM Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20640a

Product Information

Application	IF, WB, E
Primary Accession	P49411
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49812
Calculated MW	49875

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.

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.

Background

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

References

Worix V.L.,et al.Biochim. Biophys. Acta 1264:347-356(1995).

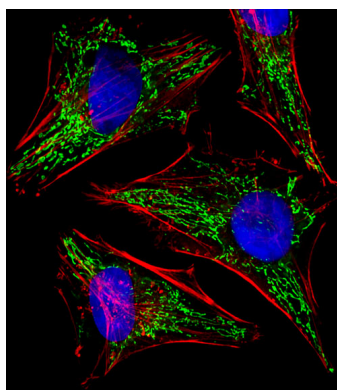
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Ling M.,et al.Gene 197:325-336(1997).

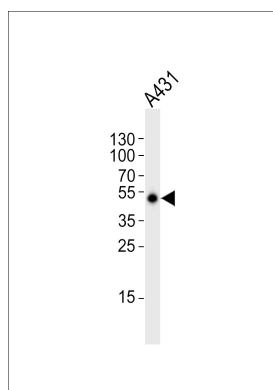
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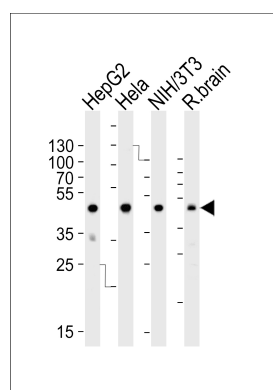
Images



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 IgG 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).



Western blot analysis of lysate from A431 cell line, using TUFM Antibody (N-term)(Cat. #AP20640a). AP20640a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Western blot analysis of lysates from HepG2, HeLa, mouse NIH/3T3 cell line and rat brain tissue lysate(from left to right), using TUFM Antibody (N-term)(Cat. #AP20640a). AP20640a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.