

TUFM Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5218

Product Information

Application	IF, WB
Primary Accession	P49411
Other Accession	P85834 , Q8BFR5 , P49410
Reactivity	Human, Mouse, Rat
Predicted	Bovine
Host	Rabbit
Clonality	polyclonal
Calculated MW	49875
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	7284
Antigen Region	112-147
Other Names	Elongation factor Tu, mitochondrial, EF-Tu, P43, TUFM
Dilution	IF~~1:25 WB~~1:2000
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.
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.

Cellular Location

Mitochondrion.

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).

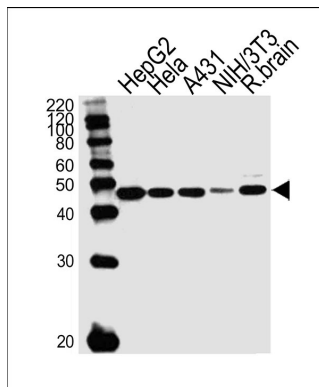
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Ling M., et al. Gene 197:325-336(1997).

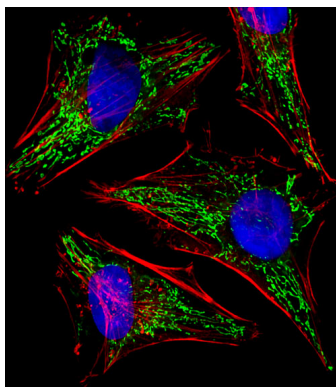
Martin J., et al. Nature 432:988-994(2004).

Dunn M.J., et al. Submitted (MAR-1996) to UniProtKB.

Images



Western blot analysis of lysates from HepG2, HeLa, A431, mouse NIH/3T3 cell line, rat brain tissue lysate (from left to right), using TUFM Antibody (N-term) (Cat. #AW5218). AW5218 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody.



Fluorescent image of HeLa cells stained with TUFM Antibody (N-term) (Cat#AW5218). AW5218 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).

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