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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~~1:1000
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. Participates in

mitochondrial translation (By similarity). Also plays a role in the regulation of autophagy and innate immunity (PubMed:22749352, PubMed:28407488). Recruits ATG5-ATG12 and NLRX1 at mitochondria and serves as a checkpoint of the RIGI-MAVS pathway (PubMed:28407488). In turn, inhibits RLR-mediated type I interferon while promoting autophagy (PubMed:22749352).

Cellular Location Mitochondrion matrix

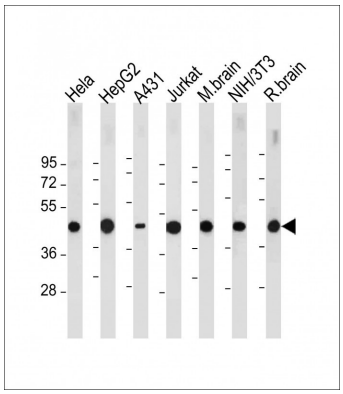
Background

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

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.

Images



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 tissue 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.

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