

For Research Use Only

TUFM Polyclonal antibody

Catalog Number: 26730-1-AP **9 Publications**



Basic Information

Catalog Number: 26730-1-AP	GenBank Accession Number: BC010041	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7284	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:400-1:1600 IF/ICC 1:500-1:2000
Source: Rabbit	UNIPROT ID: P49411	
Isotype: IgG	Full Name: Tu translation elongation factor, mitochondrial	
Immunogen Catalog Number: AG24981	Calculated MW: 50 kDa	
	Observed MW: 46-50 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : A431 cells, Jurkat cells, mouse brain tissue, rat brain tissue IHC : human stomach tissue, IF/ICC : HepG2 cells,
Cited Applications: WB, IF, CoIP	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat, zebrafish	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

TUFM, also named as Elongation factor Tu, mitochondrial, is a 452 amino acid protein, which contains 1 tr-type G (guanine nucleotide-binding) domain and belongs to the TRAFAC class translation factor GTPase superfamily. TUFM localizes in the Mitochondrion and promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.

Notable Publications

Author	Pubmed ID	Journal	Application
Danni Chen	30916346	Nucleic Acids Res	WB
Qinghai Zhang	30137487	Nucleic Acids Res	WB
Qinghai Zhang	33836087	Nucleic Acids Res	WB

Storage

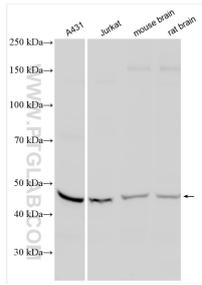
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

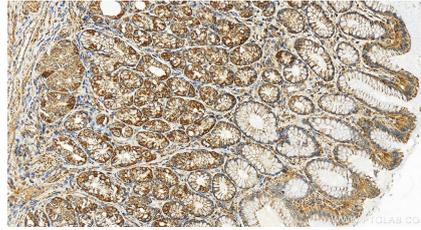
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

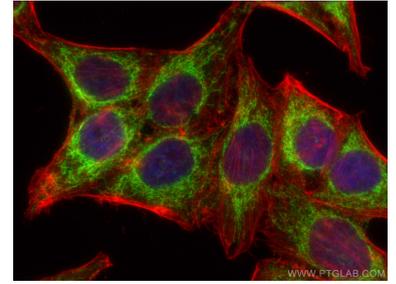
Selected Validation Data



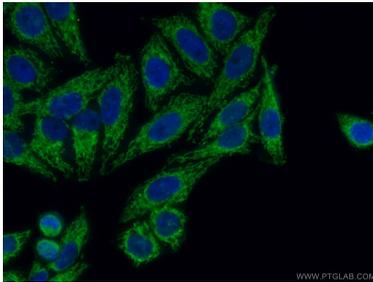
Various lysates were subjected to SDS PAGE followed by western blot with 26730-1-AP (TUFM antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



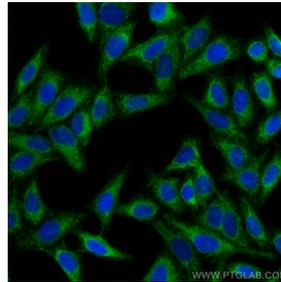
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 26730-1-AP (TUFM antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



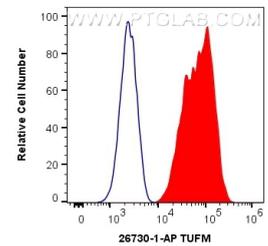
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TUFM antibody (26730-1-AP) at dilution of 1:1000 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 26730-1-AP (TUFM antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TUFM antibody (26730-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human TUFM (26730-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).