

For Research Use Only

# TUFM Polyclonal antibody

Catalog Number: 26730-1-AP

9 Publications



## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, CoIP	<b>WB :</b> A431 cells, Jurkat cells, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human stomach tissue,
<b>Cited Species:</b> human, mouse, rat, zebrafish	<b>IF/ICC :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

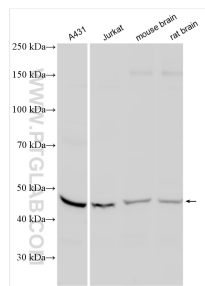
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

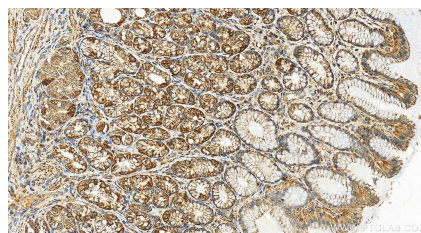
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

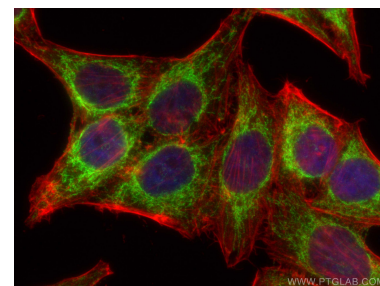
## Selected Validation Data



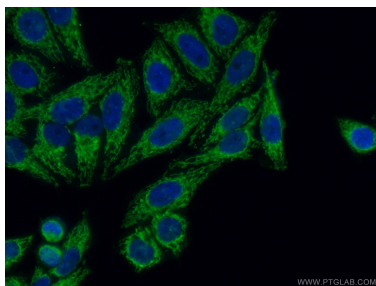
Various lysates were subjected to SDS PAGE followed by western blot with 26730-1-AP (TUFM antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



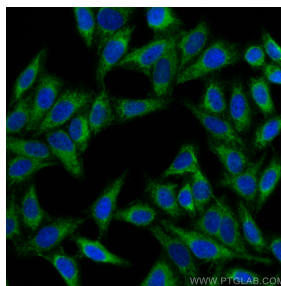
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 26730-1-AP (TUFM antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



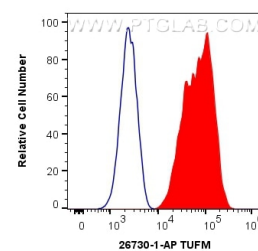
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TUFM antibody (26730-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



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).



1X10<sup>6</sup> 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).