

For Research Use Only

TUFM Polyclonal antibody

Catalog Number: 26730-1-AP **4 Publications**



Basic Information

Catalog Number:

26730-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24981

GenBank Accession Number:

BC010041

GeneID (NCBI):

7284

UNIPROT ID:

P49411

Full Name:

Tu translation elongation factor,
mitochondrial

Calculated MW:

50 kDa

Observed MW:

46-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IF 1:50-1:500

Applications

Tested Applications:

FC, IF/ICC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

rat, zebrafish

Positive Controls:

WB : A431 cells, Jurkat cells, mouse brain tissue, rat brain tissue

IF : HepG2 cells,

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

For technical support and original validation data for this product please contact:

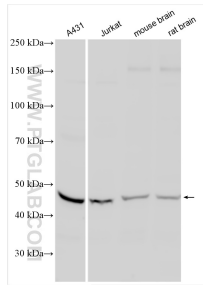
T: 4006900926

E: Proteintech-CN@ptglab.com

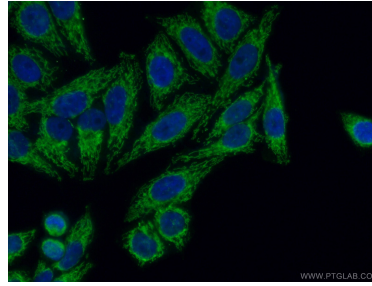
W: ptgcn.com

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

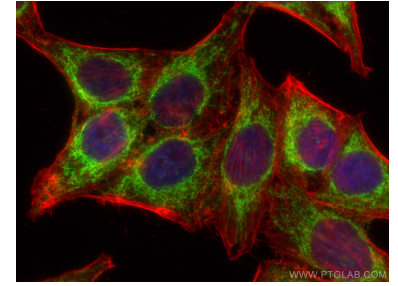
Selected Validation Data



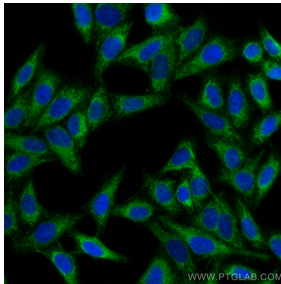
Various lysates were subjected to SDS PAGE followed by western blot with 26730-1-AP (TUFM antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



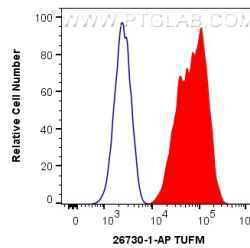
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 26730-1-AP (TUFM antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



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).



1X10⁶ 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).