

For Research Use Only

# TUFM Monoclonal antibody

Catalog Number: 67802-1-Ig



## Basic Information

<b>Catalog Number:</b> 67802-1-Ig	<b>GenBank Accession Number:</b> BC010041	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7284	<b>CloneNo.:</b> 2A10D2
<b>Source:</b> Mouse	<b>Full Name:</b> Tu translation elongation factor, mitochondrial	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB IHC 1:1000-1:4000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 50 kDa	
<b>Immunogen Catalog Number:</b> AG24976	<b>Observed MW:</b> 48-50 kDa	

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Species Specificity:

Human, mouse, rat

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

### Positive Controls:

**WB:** LNCaP cells, HCT 116 cells, HepG2 cells, HeLa  
cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, PC-12  
cells, 4T1 cells

**IP:** HepG2 cells,

**IHC:** human colon cancer tissue,

## 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.

## 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

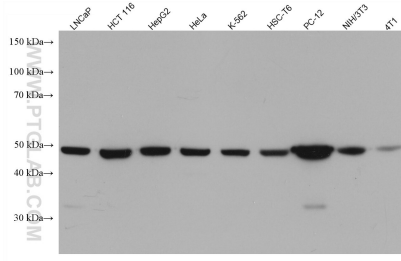
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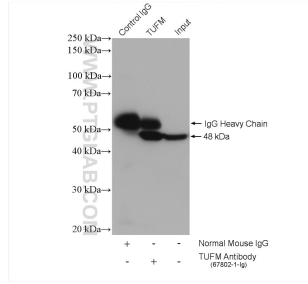
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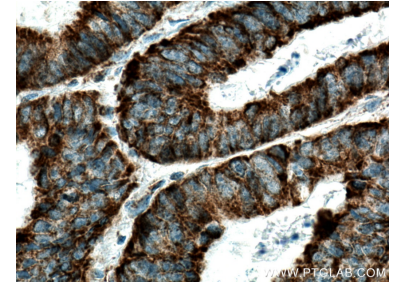
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67802-1-Ig (TUFM antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-TUFM(IP:67802-1-Ig, 5ug; Detection:67802-1-Ig 1:2000) with HepG2 cells lysate 1880 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67802-1-Ig (TUFM antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).