

For Research Use Only

TUFM Monoclonal antibody

Catalog Number: 67802-1-Ig



Basic Information

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|--|--|---|
| Catalog Number: 67802-1-Ig | GenBank Accession Number: BC010041 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 7284 | CloneNo.: 2A10D2 |
| Source: Mouse | UNIPROT ID: P49411 | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 |
| Isotype: IgG2a | Full Name: Tu translation elongation factor, mitochondrial | |
| Immunogen Catalog Number: AG24976 | Calculated MW: 50 kDa | |
| | Observed MW: 48-50 kDa | |

Applications

Tested Applications:

WB, IHC, IP, 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

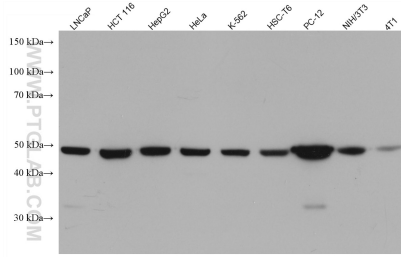
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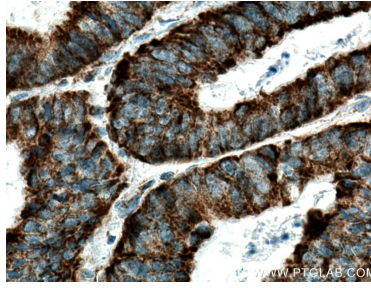
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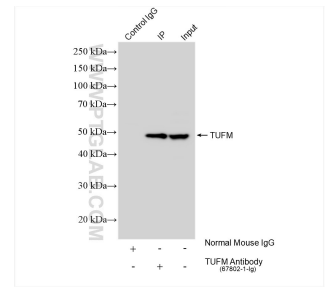
Selected Validation Data



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.



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).



IP result of anti-TUFM (IP:67802-1-Ig, 4ug; Detection:67802-1-Ig 1:3000) with HepG2 cells lysate 2000 ug.