

For Research Use Only

# TFAM Monoclonal antibody

Catalog Number: 68557-5-Ig

Featured Product



## Basic Information

Catalog Number:

68557-5-Ig

Size:

150ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG18253

GenBank Accession Number:

BC126366

GeneID (NCBI):

7019

UNIPROT ID:

Q00059

Full Name:

transcription factor A, mitochondrial

Calculated MW:

246 aa, 29 kDa

Observed MW:

25 kDa

Purification Method:

Protein G purification

CloneNo.:

1C8H3

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:2000-1:8000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human

**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: Jurkat cells, Caco-2 cells, HEK-293 cells, U2OS cells, LNCaP cells, MOLT-4 cells, MJ cells, K-562 cells

IHC: human colon cancer tissue,

IF/ICC: HepG2 cells,

## Background Information

TFAM, also named as TCF6L2, MtTF1, TCF6, TCF6L1, TCF6L3, and mtTFA, is a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. It is involved in mitochondrial transcription regulation. TFAM is required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase. It activates transcription by binding immediately upstream of transcriptional start sites. TFAM is able to unwind and bend DNA.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

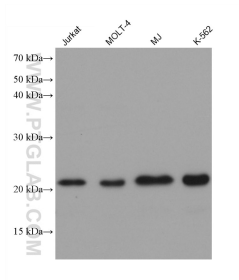
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

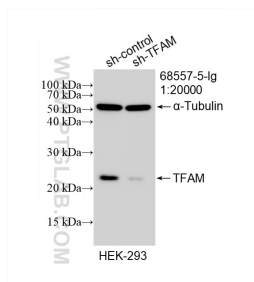
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

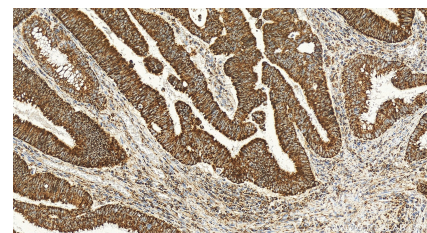
## Selected Validation Data



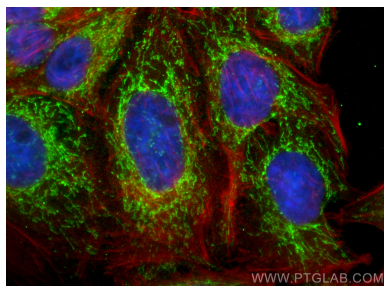
Various lysates were subjected to SDS PAGE followed by western blot with 68557-5-Ig (TFAM antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



WB result of TFAM antibody (68557-5-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TFAM transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 68557-5-Ig (TFAM antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAM antibody (68557-5-Ig, Clone: 1C8H3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).