

For Research Use Only

# TFAM Polyclonal antibody

Catalog Number: 22586-1-AP

Featured Product

153 Publications



## Basic Information

### Catalog Number:

22586-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18299

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, ChIP, ELISA

### Species Specificity:

human

### Cited Species:

human, chicken, zebrafish, goat

**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**: HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, MCF-7 cells

**IP**: HEK-293 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Timo Rey	32989247	Nat Cell Biol	WB
Shaofan Hu	36174386	Redox Biol	WB
Hua Zhou	36069230	Int J Oncol	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

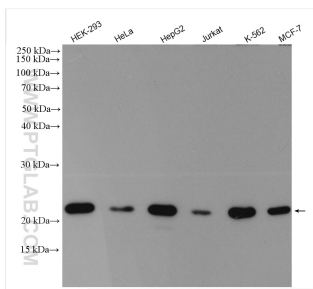
For technical support and original validation data for this product please contact:

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

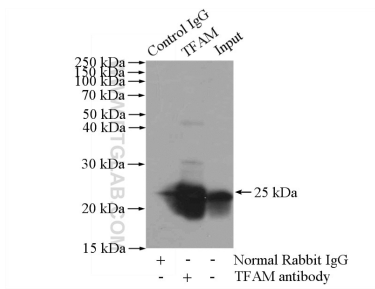
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

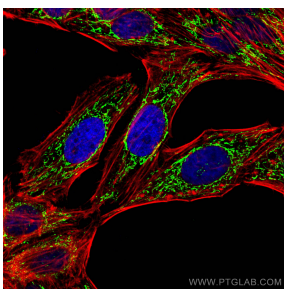
## Selected Validation Data



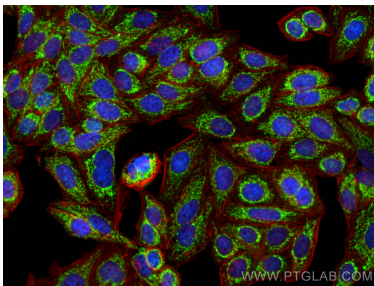
Various lysates were subjected to SDS PAGE followed by western blot with 22586-1-AP (TFAM antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



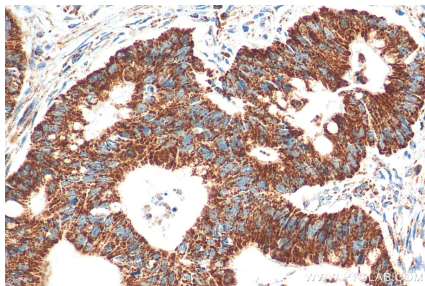
IP result of anti-TFAM (IP:22586-1-AP, 4ug; Detection:22586-1-AP 1:800) with HEK-293 cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAM antibody (22586-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAM antibody (22586-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22586-1-AP (TFAM antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).