

For Research Use Only

# TFAM Polyclonal antibody

Catalog Number: 19998-1-AP

41 Publications



## Basic Information

### Catalog Number:

19998-1-AP

### Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_003201

### GeneID (NCBI):

7019

### UNIPROT ID:

Q00059

### Full Name:

transcription factor A, mitochondrial

### Calculated MW:

29 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, zebrafish

**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, HEK-293 cells

IHC: human colon cancer tissue, human heart tissue

## 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. The molecular weight of TFAM isoforms are 25 kDa and 29 kDa, but the ubiquitination of TFAM protein is about 35-37 kDa (PMID: 24607487).

## Notable Publications

Author	Pubmed ID	Journal	Application
Benedetta Ruzzenente	30252186	Hum Mutat	WB
Tao Zhang	30187480	J Cell Physiol	WB, IHC
Baasanjav Uranbileg	36125914	Clin Transl Med	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

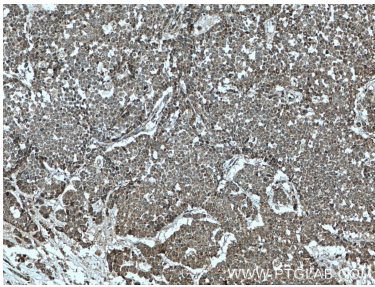
For technical support and original validation data for this product please contact:

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

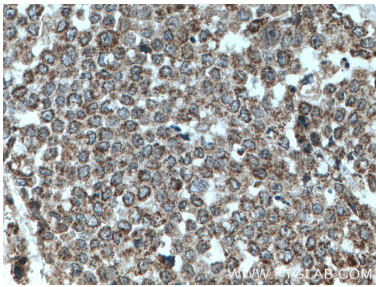
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

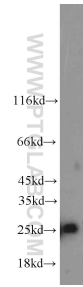
Selected Validation Data



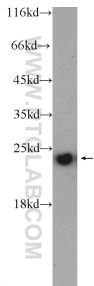
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 19998-1-AP (TFAM antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 19998-1-AP (TFAM antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Jurkat cells were subjected to SDS PAGE followed by western blot with 19998-1-AP (TFAM antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 19998-1-AP (TFAM Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.