

TFAM Polyclonal antibody

Catalog Number: 19998-1-AP

40 Publications

Basic Information

Catalog Number: 19998-1-AP	GenBank Accession Number: NM_003201	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7019	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	Full Name: transcription factor A, mitochondrial	
Isotype: IgG	Calculated MW: 29 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, IP, WB	WB : Jurkat cells, HEK-293 cells
Species Specificity: human, mouse	IHC : human colon cancer tissue, human heart tissue
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	

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
Jing Geng	26414765	Nat Immunol	WB
Benedetta Ruzzenente	30252186	Hum Mutat	WB
Tao Zhang	30187480	J Cell Physiol	WB, IHC

Storage

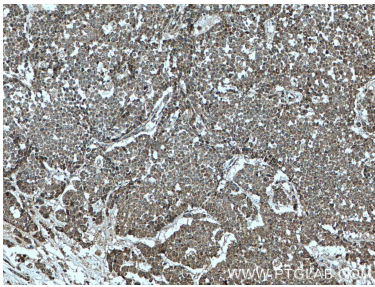
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

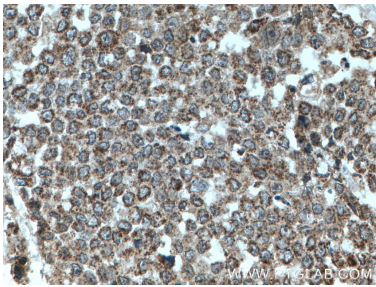
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

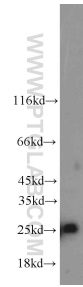
Selected Validation Data



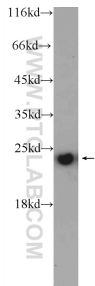
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 19998-1-AP (TFAM antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



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.