

For Research Use Only

TFAM Polyclonal antibody

Catalog Number: 22586-1-AP

Featured Product

160 Publications



Basic Information

Catalog Number:

22586-1-AP

Concentration:

600 ug/ml

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

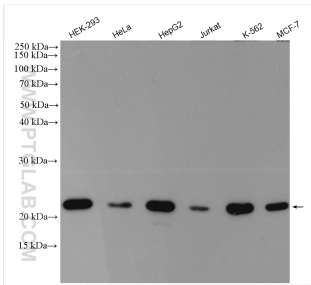
T: 4006900926

E: Proteintech-CN@ptglab.com

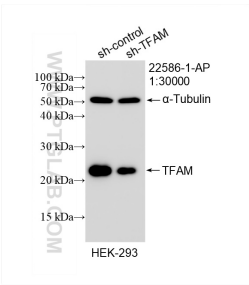
W: ptgcn.com

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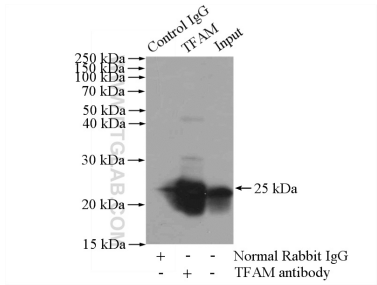
Selected Validation Data



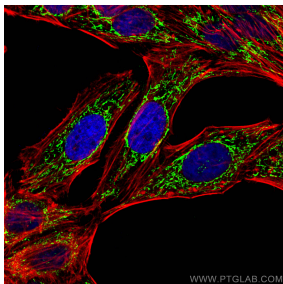
Various lysates were subjected to SDS PAGE followed by western blot with 22586-1-AP (TFAM antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



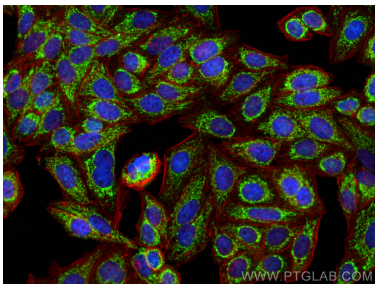
WB result of TFAM antibody (22586-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TFAM transfected HEK-293 cells.



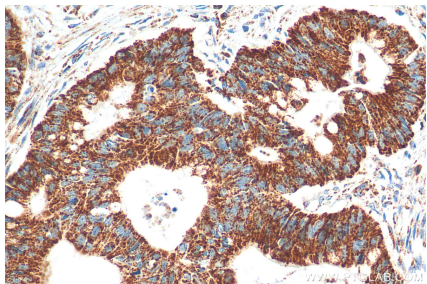
IP result of anti-TFAM (IP:22586-1-AP, 4ug; Detection:22586-1-AP 1:800) with HEK-293 cells lysate 3200ug.



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).