

Rabbit anti-Human TFAM Polyclonal Antibody | anti-TFAM antibody

TFAM Antibody (C-term)

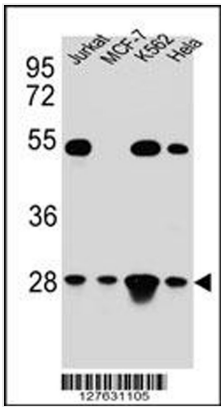
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28696	Rabbit	Human	ELISA, Immunohistochemistry, Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

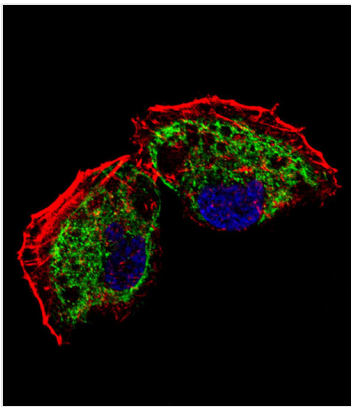
TFAM; Polyclonal Antibody; TFAM Antibody (C-term); Transcription factor A; mitochondrial; mtTFA; Mitochondrial transcription factor 1; MtTF1; Transcription factor 6; TCF-6; Transcription factor 6-like 2; TCF6; TCF6L2; anti-TFAM antibody

PRODUCT SPECIFICATIONS

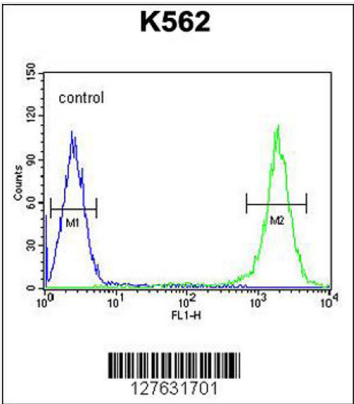
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TFAM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 216-246 amino acids from the C-terminal region of human TFAM.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	216-246
Sequence Length	214
Applicable Applications for anti-TFAM antibody	ELISA, IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot)
Application Notes	WB~~1:1000
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



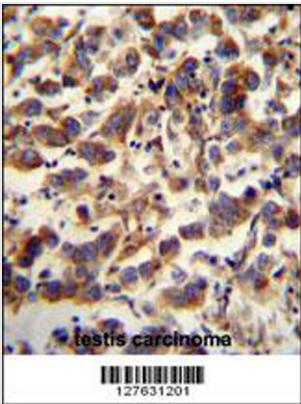
WB (Western Blot)
TFAM Antibody (C-term) western blot analysis in Hela, Jurkat, K562, MCF-7 cell line lysates (35ug/lane). This demonstrates the TFAM antibody detected the TFAM protein (arrow).



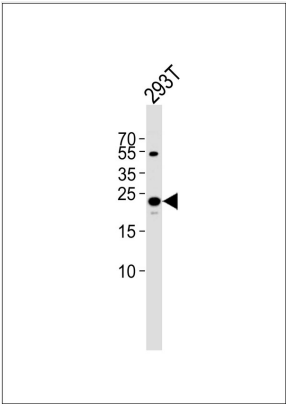
IF (Immunofluorescence)
Fluorescent confocal image of NCI-H460 cell stained with TFAM Antibody (C-term). NCI-H460 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TFAM primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). TFAM immunoreactivity is localized to mitochondrion significantly.



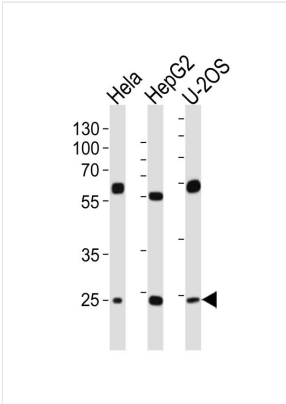
FCM (Flow Cytometry)
TFAM Antibody (C-term) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
TFAM antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TFAM antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from 293T cell line, using TFAM Antibody (C-term). AAA28696 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



WB (Western Blot)
Western blot analysis of lysates from Hela, HepG2, U-2OS cell line (from left to right), using TFAM Antibody (C-term). AAA28696 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-TFAM antibody	This gene encodes a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. Studies in mice have demonstrated that this gene product is required to regulate the mitochondrial genome copy number and is essential for embryonic development. A mouse model for Kearns-Sayre syndrome was produced when expression of this gene was eliminated by targeted disruption in heart and muscle cells.
Product Categories/Family for anti-TFAM antibody	Cardiovascular ; Metabolism ; Signal transduction
References	Wang, W., et al. Nucleic Acids Res. (2010) In press : Corneveaux, J.J., et al. Hum. Mol. Genet. 19(16):3295-3301(2010) Akhmetov, I.I., et al. Fiziol Cheloveka 36(2):121-125(2010) Shulman, J.M., et al. PLoS ONE 5 (6), E11244 (2010) : Laumet, G., et al. J. Alzheimers Dis. 20(4):1181-1188(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	399498566
NCBI GeneID	7019
NCBI Accession #	NP_001257711.1 ; NP_003192.1
NCBI GenBank Nucleotide #	NM_001270782.1
UniProt Accession #	Q00059 ; Q5U0C6 ; A8MRB2 ; A9QXC6 ; B5BU05
Molecular Weight	29097
NCBI Official Full Name	transcription factor A, mitochondrial isoform 2
NCBI Official Synonym Full Names	transcription factor A, mitochondrial
NCBI Official Symbol	TFAM
NCBI Official Synonym Symbols	TCF6; MTTF1; MTTFA; TCF6L1; TCF6L2; TCF6L3
NCBI Protein Information	transcription factor A, mitochondrial
UniProt Protein Name	Transcription factor A, mitochondrial
UniProt Gene Name	TFAM
UniProt Synonym Gene Names	TCF6; TCF6L2; mtTFA; MtTF1; TCF-6
UniProt Entry Name	TFAM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tfam-antibody-immunohistochemistry-flow-cytometry-immunofluorescence-western-blot-elisa/28696>