

TFAM Ab

Cat.#: AF0531
Size: 100ul,200ul

Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 29kDa
Clonality: Polyclonal

Application: IHC 1:50-1:200 IF/ICC 1:100-1:500, WB 1:500-1:2000

Reactivity: Human, Mouse

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Specificity: TFAM Ab detects endogenous levels of TFAM.

Immunogen: A synthesized peptide derived from human TFAM.

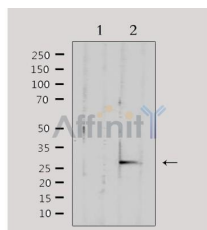
Uniprot: Q00059

Description: 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.

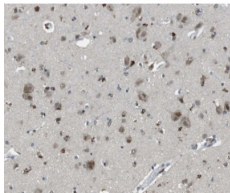
Subcellular Location: Mitochondrion.

Similarity: Binds DNA via its HMG boxes. When bound to the mitochondrial light strand promoter, bends DNA into a U-turn shape, each HMG box bending the DNA by 90 degrees.

Storage Condition and Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.



Western blot analysis of extracts from mouse brain, using TFAM Ab. Lane 1 was treated with the antigen-specific peptide.



AF0531 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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