

Datasheet for ABIN7603113
anti-TFAM antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	TFAM
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TFAM antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-mtTFA TFAM Antibody Picoband® (monoclonal, 4D9)
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human mtTFA, different from the related mouse and rat sequences by five amino acids.
Clone:	4D9
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-mtTFA TFAM Antibody Picoband® (monoclonal, 4D9) (ABIN7603113). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: TFAM

Alternative Name: TFAM ([TFAM Products](#))

Background: Synonyms: Transcription factor A, mitochondrial, mtTFA, Mitochondrial transcription factor 1, MtTF1, Transcription factor 6, TCF-6, Transcription factor 6-like 2, TFAM, TCF6, TCF6L2
Tissue Specificity: Widely expressed at low level. Expressed in heart,brain,skeletal muscle,placenta,pancreas,spleen,prostate,mall intestine,colon,peripheral blood,leukocytes,bone marrow and fetal liver.Highly expressed in testes.
Background: TFAM (Transcription factor A, mitochondrial), also known as TCF6 or TCF6L2, is a 162-amino acid protein that activates transcription of each mitochondrial DNA (mtDNA) strand by binding to an element of approximately 30 nucleotides present in both the light-strand and the heavy-strand promoters. By Southern blot analysis of restriction enzyme digests of human/Chinese hamster somatic cell hybrid lines, Milatovich et al. (1992) mapped TFAM sequences, which they called MTTF1, to 3 different chromosomes: chromosomes 10, 7p, and 11q. By PCR-based screening of a somatic cell hybrid panel and by fluorescence in situ hybridization, Scott (2007) stated that the sequences mapped to chromosomes 7p (TCF6L1) and 11q (MTTF1, or TCF6L3) are pseudogenes. Larsson et al. (1997) mapped the mouse mitochondrial transcription factor A gene (Tfam) to the central part of mouse chromosome 10. This region exhibits syntenic homology with human 10q21. Mitochondrial transcription factor A is a key activator of mitochondrial transcription in mammals. It also has a role in mitochondrial DNA replication, since transcription generates an RNA primer necessary for initiation of mtDNA replication.

Molecular Weight: 40 kDa

Gene ID: 7019

UniProt: [Q00059](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: Western blot, 1-2 µg/mL, Human
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

Application Details

1. Larsson, N.-G., Oldfors, A., Garman, J. D., Barsh, G. S., Clayton, D. A. Down-regulation of mitochondrial transcription factor A during spermatogenesis in humans. Hum. Molec. Genet. 6: 185-191, 1997. 2. Milatovich, A., Parisi, M. A., Poulton, J., Clayton, D. A., Francke, U. Sequences homologous to MTTF1, mitochondrial transcription factor 1, are located on human chromosomes 7 (7pter-cen), 10 and 11 (11cen-qter). (Abstract) Cytogenet. Cell Genet. 58: 1924 only, 1992. 3. Scott, A. F. Personal Communication. Baltimore, Md. 9/20/2007.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.