Datasheet for ABIN7599088

anti-TFAM antibody (AA 1-211)

Go to Product page

Overview

Quantity:	100 µg
Target:	TFAM
Binding Specificity:	AA 1-211
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TFAM antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-mtTFA/Tfam Antibody Picoband®
Immunogen:	E.coli-derived mouse mtTFA/Tfam recombinant protein (Position: M1-D211).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-mtTFA/Tfam Antibody Picoband® (ABIN7599088). Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	TFAM
Alternative Name:	Tfam (TFAM Products)
Background:	Synonyms: CREB-regulated transcription coactivator 2, Transducer of regulated cAMP response element-binding protein 2, TORC-2, Transducer of CREB protein 2, CRTC2, TORC2 Tissue Specificity: Most abundantly expressed in the thymus. Present in both B and T-lymphocytes. Highly expressed in HEK293T cells and in insulinomas. High levels also in spleen, ovary, muscle and lung, with highest levels in muscle. Lower levels found in brain, colon, heart, kidney, prostate, small intestine and stomach. Weak expression in liver and pancreas. 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:	23 kDa
Gene ID:	21780
UniProt:	P40630
Pathways:	Chromatin Binding

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat ELISA, 0.1-0.5 µg/mL, - 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

Application Details

	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.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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.