# TFAM Antibody

## PRODUCT OVERVIEW

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| **Product Name** | TFAM, Antibody |
| **Full Product Name** | TFAM Antibody |
| **Product Gene Name** | anti-TFAM antibody |
| **Product Synonym Names** | RTEF1; TCF13L1; TEA domain family member 4; TEAD-4; TEAD4; TEF3; transcription factor RTEF-1; transcriptional enhancer factor TEF-3 |
| **Species Reactivity** | Human |
| **Form/Format** | In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Immunogen affinity purified |
| **Specificity** | TFAM Antibody detects endogenous levels of TFAM |
| **Preparation and Storage** | Store at-20 degree C for 1 year |
| **Molecular Weight** | 29kDa |
| **OMIM** | 600438 |
| **3D Structure** | ModBase 3D Structure for Q00059 |
| **Immunogen** | A synthesized peptide derived from human TFAM |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-TFAM antibody** | Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |
| **Application Notes for anti-TFAM antibody** | IHC: 1:50-1:200<br>IF/ICC: 1:100-1:500 |
| **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. |
| **Other Notes** | Small volumes of anti-TFAM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for TFAM purchase** | MBS8510959 is an antibody targeting TFAM. Also known as TFAM Antibody. Reactive in Human. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFAM. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 399498566 |
| **NCBI GeneID** | 7019 |
| **NCBI Accession #** | NP_001257711.1 |
| **UniProt Primary Accession #** | Q00059 |
| **UniProt Secondary Accession #** | Q5U0C6; A8MRB2; A9QXC6; B5BU05 |

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| **UniProt Related Accession #** | Q00059 |
| **GenBank Nucleotide #** | NM_001270782.1 |
| **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; MTDPS15 |
| **UniProt Protein Name** | Transcription factor A, mitochondrial |
| **UniProt Synonym Protein Names** | Mitochondrial transcription factor 1; MtTF1; Transcription factor 6; TCF-6; Transcription factor 6-like 2 |
| **Protein Family** | Transcription factor |
| **UniProt Gene Name** | TFAM |
| **UniProt Synonym Gene Names** | TCF6; TCF6L2; mtTFA; MtTF1; TCF-6 |
| **NCBI Protein Information** | transcription factor A, mitochondrial |
| **NCBI Summary for TFAM** | This gene encodes a key mitochondrial transcription factor containing two high mobility group motifs. The encoded protein also functions in mitochondrial DNA replication and repair. Sequence polymorphisms in this gene are associated with Alzheimer's and Parkinson's diseases. There are pseudogenes for this gene on chromosomes 6, 7, and 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012] |
| **UniProt Comments for TFAM** | Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation. Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase. Promotes transcription initiation from the HSP1 and the light strand promoter by binding immediately upstream of transcriptional start sites. Is able to unwind DNA. Bends the mitochondrial light strand promoter DNA into a U-turn shape via its HMG boxes. Required for maintenance of normal levels of mitochondrial DNA. May play a role in organizing and compacting mitochondrial DNA. |
| **Research Articles on TFAM** | **1.** the results presented in this study obviously provided the evidence that TFAM was upregulated in glioma cell line and glioma tissue specimens. Therefore TFAM may be a novel diagnostic marker and therapeutic target for glioma and other cancer. |
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