

mtTFA Rabbit mAb
Catalog # AP76817**Specification**

mtTFA Rabbit mAb - Product Information

Application	WB, IHC-P, IHC-F, IP, ICC
Primary Accession	Q00059
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	29097

mtTFA Rabbit mAb - Additional Information**Gene ID** 7019**Other Names**
TFAM**Dilution**
WB~~1/500-1/1000
IHC-P~~N/A
IHC-F~~N/A
IP~~N/A
ICC~~N/A**Format**
Liquid**mtTFA Rabbit mAb - Protein Information****Name** TFAM ([HGNC:11741](#))**Synonyms** TCF6, TCF6L2**Function**

Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation (PubMed:<[a href="http://www.uniprot.org/citations/29445193" target="_blank">29445193](http://www.uniprot.org/citations/29445193), PubMed:<[a href="http://www.uniprot.org/citations/32183942" target="_blank">32183942](http://www.uniprot.org/citations/32183942)). Component of the mitochondrial transcription initiation complex, composed at least of TFB2M, TFAM and POLRMT that is required for basal transcription of mitochondrial DNA (PubMed:<[a href="http://www.uniprot.org/citations/29149603" target="_blank">29149603](http://www.uniprot.org/citations/29149603)). In this complex, TFAM recruits POLRMT to a specific promoter whereas TFB2M induces structural changes in POLRMT to enable promoter opening and trapping of the DNA non-template strand (PubMed:<[a href="http://www.uniprot.org/citations/20410300" target="_blank">20410300](http://www.uniprot.org/citations/20410300)). Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase (PubMed:<[a href="http://www.uniprot.org/citations/22037172" target="_blank">22037172](http://www.uniprot.org/citations/22037172)). Promotes transcription initiation from the HSP1 and the light

strand promoter by binding immediately upstream of transcriptional start sites (PubMed:22037172). Is able to unwind DNA (PubMed:22037172). Bends the mitochondrial light strand promoter DNA into a U-turn shape via its HMG boxes (PubMed:1737790). Required for maintenance of normal levels of mitochondrial DNA (PubMed:19304746, PubMed:22841477). May play a role in organizing and compacting mitochondrial DNA (PubMed:22037171).

Cellular Location

Mitochondrion. Mitochondrion matrix, mitochondrion nucleoid

mtTFA Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

mtTFA Rabbit mAb - Images



