

mtTFA Rabbit mAb

Catalog # AP76817

Product Information

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

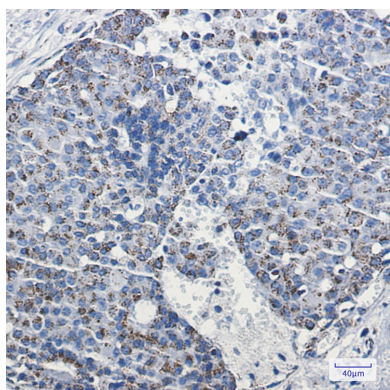
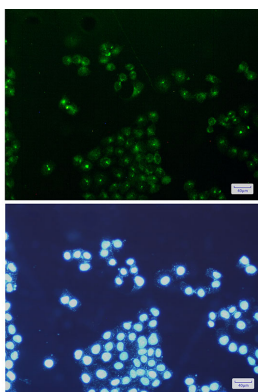
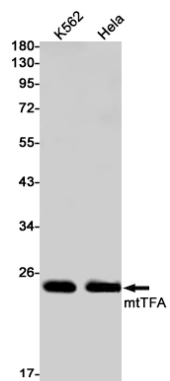
Additional Information

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	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.

Protein Information

Name	TFAM (HGNC:11741)
Synonyms	TCF6, TCF6L2
Function	Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation (PubMed: 29445193 , PubMed: 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: 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: 20410300). Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase (PubMed: 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

Images



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