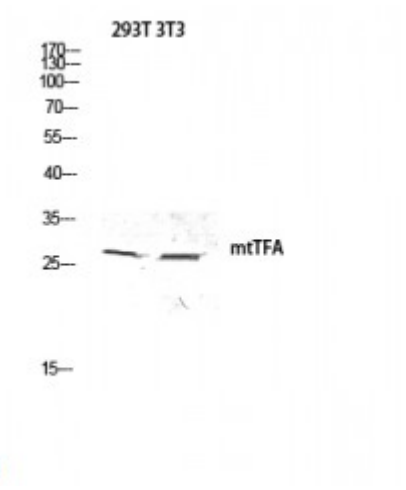
Anti-mtTFA antibody



Description	Rabbit polyclonal to mtTFA.

Model	STJ94281
Host	Rabbit
Reactivity	Human
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human mtTFA
Immunogen Region	100-180 aa, Internal
Gene ID	7019
Gene Symbol	TFAM
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	mtTFA Polyclonal Antibody detects endogenous levels of mtTFA protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Transcription factor A, mitochondrial mtTFA Mitochondrial transcription factor 1 MtTF1 Transcription factor 6 TCF-6 Transcription factor 6-like 2
Molecular Weight	29.097 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11741OMIM:600438
Alternative Names	Transcription factor A, mitochondrial mtTFA Mitochondrial transcription factor 1 MtTF1 Transcription factor 6 TCF-6 Transcription factor 6-like 2
Function	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.
Sequence and Domain Family	Binds DNA via its HMG boxes. When bound to the mitochondrial light strand promoter, bends DNA into a U-turn shape, each HMG box bending the DNA by 90 degrees.
Cellular Localization	Mitochondrion. Mitochondrion matrix, mitochondrion nucleoid.
Post-translational Modifications	Phosphorylation by PKA within the HMG box 1 impairs DNA binding and promotes degradation by the AAA+ Lon protease.