

Product Name: mtTFA (6Q12) Rabbit Monoclonal Antibody
Catalog #: AMRe14221

Summary

Production Name	mtTFA (6Q12) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	TFAM
Alternative Names	MtTF1; mtTFA; TCF6; TCF6L1; TCF6L2; TCF6L3; TFAM; Transcription factor 6;
Gene ID	7019.0
SwissProt ID	Q00059.A synthetic peptide of human mtTFA

Application

Dilution Ratio	WB: 1:2000-1:10000
Molecular Weight	29kDa

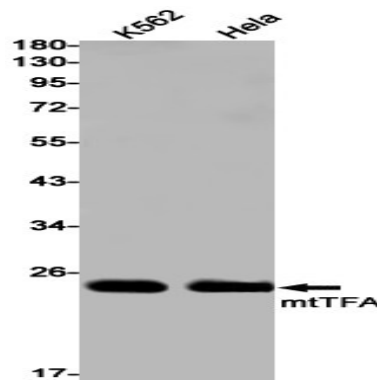
Background

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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. Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation (PubMed:[29445193](http://www.uniprot.org/citations/29445193)), PubMed:[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:[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:[20410300](http://www.uniprot.org/citations/20410300)). Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase (PubMed:[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](http://www.uniprot.org/citations/22037172)). Is able to unwind DNA (PubMed:[22037172](http://www.uniprot.org/citations/22037172)). Bends the mitochondrial light strand promoter DNA into a U-turn shape via its HMG boxes (PubMed:[1737790](http://www.uniprot.org/citations/1737790)). Required for maintenance of normal levels of mitochondrial DNA (PubMed:[22841477](http://www.uniprot.org/citations/22841477), PubMed:[19304746](http://www.uniprot.org/citations/19304746)). May play a role in organizing and compacting mitochondrial DNA (PubMed:[22037171](http://www.uniprot.org/citations/22037171)).

Research Area

Image Data



Western blot detection of mtTFA in K562, HeLa cell lysates using mtTFA antibody (1:1000 diluted).



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Note

For research use only.