ARG46741
anti-TFAM antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TFAM
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TFAM
Immunogen	Synthetic peptide
Conjugation	Un-conjugated
Alternate Names	TCF6; MTTFA; mtTFA; TCF-6; Transcription factor A, mitochondrial; MtTF1; MTTF1; Mitochondrial transcription factor 1; Transcription factor 6-like 2; TCF6L1; Transcription factor 6; TCF6L3; TCF6L2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:5000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

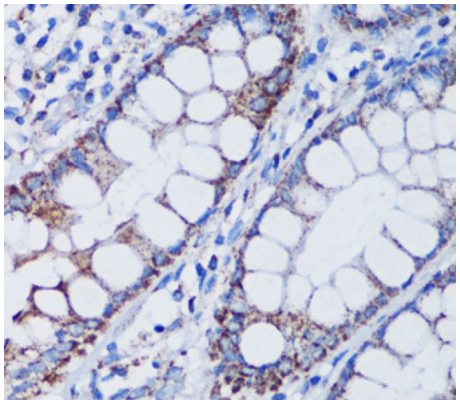
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 50% Glycerol, Proclin 300 or sodium azide
Preservative	Proclin 300 or sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

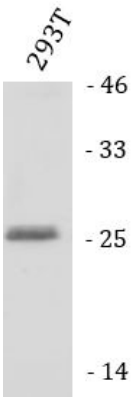
Gene Symbol	TFAM
Gene Full Name	transcription factor A, mitochondrial
Background	This gene encodes a key mitochondrial transcription factor containing two high mobility group motifs. The encoded protein also functions in mitochondrial DNA replication and repair. Sequence polymorphisms in this gene are 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]
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. [UniProt]
Calculated Mw	29 kDa
PTM	Phosphorylation by PKA within the HMG box 1 impairs DNA binding and promotes degradation by the AAA+ Lon protease.

Images



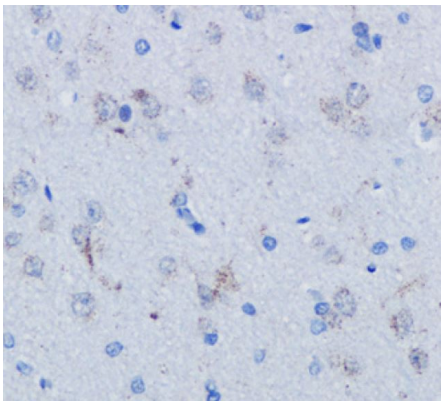
ARG46741 anti-TFAM antibody IHC-P image

Immunohistochemistry: Human colon stained with ARG46741 anti-TFAM antibody.



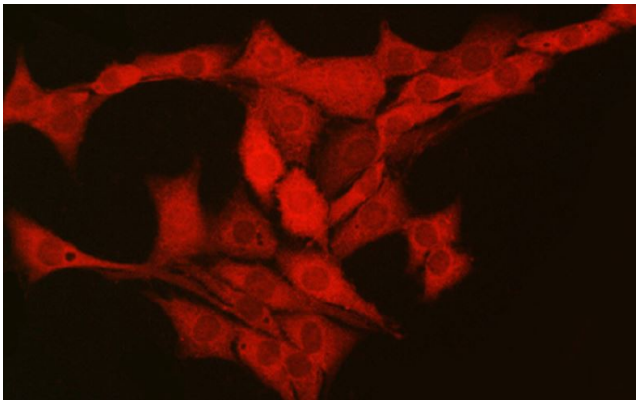
ARG46741 anti-TFAM antibody WB image

Western blot: 293T stained with ARG46741 anti-TFAM antibody.



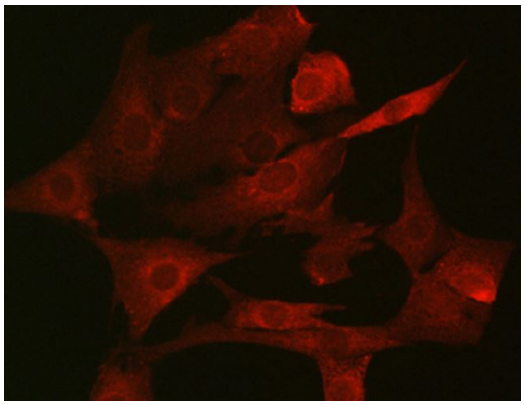
ARG46741 anti-TFAM antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG46741 anti-TFAM antibody.



ARG46741 anti-TFAM antibody ICC/IF image

Immunofluorescence: PC-12 stained with ARG46741 anti-TFAM antibody at dilution.



ARG46741 anti-TFAM antibody ICC/IF image

Immunofluorescence: NIH/3T3 stained with ARG46741 anti-TFAM antibody at dilution.