ARG52444
anti-TFAM antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TFAM
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TFAM
Species	Mouse
Immunogen	Native recombinant mouse TFAM protein with c-terminal 6-his tag
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
WB	1:2000

Application Note: Specific for the ~24 kDa TFAM protein.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

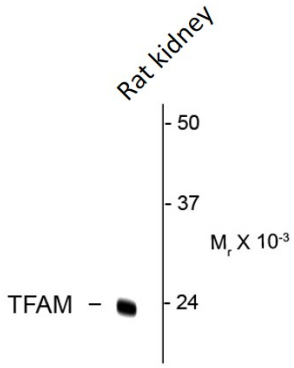
Form	Liquid
Purification	Neat Serum
Buffer	Neat serum
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin 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	Mitochondrial Transcription Factor A (TFAM) is a key activator of mitochondrial (mt) DNA transcription as well as a participant in mitochondrial genome replication. mtDNA is highly susceptible to oxidative stress leading to mitochondrial dysfunction. Overexpression of TFAM has been implicated in the amelioration of age dependent impairment of brain functions through the prevention of oxidative stress and mitochondrial dysfunction in microglia (Hayashi et al., 2008). More recently, TFAM overexpression has been shown to potentially reduce oxidative stress in motor neurons and delay onset of amyotrophic lateral sclerosis (ALS) in ALS model mice (Morimoto et al., 2012).
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Gene Regulation antibody; Metabolism antibody; Signaling Transduction antibody
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



ARG52444 anti-TFAM antibody WB image

Western blot: Rat kidney lysate showing specific immunolabeling of the ~24 kDa TFAM protein stained with ARG52444 anti-TFAM antibody.