

Product Datasheet

mtTFA Antibody H00007019-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00007019-B01P

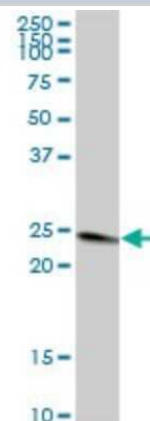
mtTFA Antibody

Product Information	
Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein G purified
Buffer	PBS (pH 7.4)
Product Description	
Description	Quality control test: Antibody reactive against mammalian transfected lysate.
Host	Mouse
Gene ID	7019
Gene Symbol	TFAM
Species	Human, Mouse
Specificity/Sensitivity	TFAM - transcription factor A, mitochondrial,
Immunogen	TFAM (NP_003192.1, 1 a.a. - 246 a.a.) full-length human protein. MAFLRSMWGVLSALGRSGAELCTGCGSRLRSPFSFVYLPRWFSSVLASCPKK PVSSYLRFSEQLPIFKAQNPDAKTTELIRRIAQRWRELPDSKKKIYQDAYRAE WQVYKEEISRFKEQLTPSQIMSLEKEIMDKHLKRKAMTKKKELTLLGKPKRPRS AYNVYVAERFQEAKGDSPQEKLKTVKENWKNLSDSEKELYIQHAKEDETRYHN EMKSWEEQMIEVGRKDLLRRTIKKQRKYGAEEC
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactivity against tissue lysates and transfected lysate for WB. It has also been used for IF, IHC-P and ELISA.

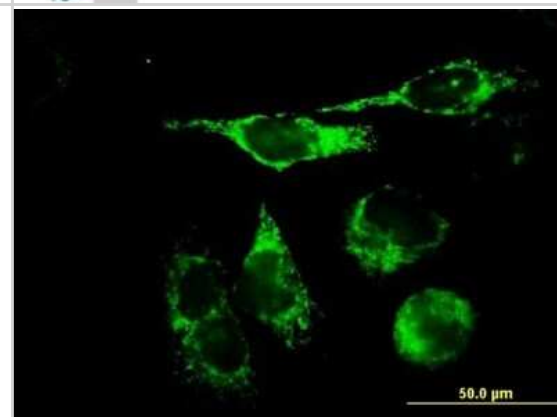


Images

Western Blot: mtTFA Antibody [H00007019-B01P] - Analysis of TFAM expression in human kidney.



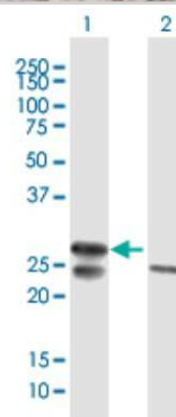
Immunocytochemistry/Immunofluorescence: mtTFA Antibody [H00007019-B01P] - Analysis of purified antibody to TFAM on HeLa cell. (antibody concentration 10 ug/ml)



Immunohistochemistry-Paraffin: mtTFA Antibody [H00007019-B01P] - Analysis of purified antibody to TFAM on formalin-fixed paraffin-embedded human small Intestine. (antibody concentration 3 ug/ml)



Western Blot: mtTFA Antibody [H00007019-B01P] - Analysis of TFAM expression in transfected 293T cell line by TFAM polyclonal antibody. Lane 1: TFAM transfected lysate(27.06 KDa). Lane 2: Non-transfected lysate.



Publications

Shin J, Hong S, Choi S et al. Flow-induced endothelial mitochondrial remodeling mitigates mitochondrial reactive oxygen species production and promotes mitochondrial DNA integrity in a p53-dependent manner Redox Biology 2022-04-01 [PMID: 35121402] (ICC/IF, WB, Mouse)

Morishita M, Kawamoto T, Hara H et al. AICAR induces mitochondrial apoptosis in human osteosarcoma cells through an AMPK-dependent pathway. Int J Oncol 2017-01-01 [PMID: 27878239]

Takeda D, Hasegawa T, Ueha T et al. Decreased mitochondrial copy numbers in oral squamous cell carcinoma. Head Neck 2016-04-15 [PMID: 27079936]

Balliet RM, Capparelli C, Guido C et al. Mitochondrial oxidative stress in cancer-associated fibroblasts drives lactate production, promoting breast cancer tumor growth: understanding the aging and cancer connection. Cell Cycle 2011-12-01 [PMID: 22129993]

Holmstrom MH, Iglesias-Gutierrez E, Zierath JR, Garcia-Roves PM. Tissue-specific control of mitochondrial respiration in obesity-related insulin resistance and diabetes. Am J Physiol Endocrinol Metab. 2012-01-17 [PMID: 22252943]

Gispert S, Parganlija D, Klinkenberg M et al. Loss of mitochondrial peptidase Clpp leads to infertility, hearing loss plus growth retardation via accumulation of CLPX, mtDNA, and inflammatory factors. Hum Mol Genet. 2013-07-12 [PMID: 23851121]

Akbari M, Keijzers G, Maynard S et al. Overexpression of DNA ligase III in mitochondria protects cells against oxidative stress and improves mitochondrial DNA base excision repair. DNA Repair (Amst). 2014-02-27 [PMID: 24674627]

Gibellini L, Pinti M, Boraldi F et al. Silencing of mitochondrial Lon protease deeply impairs mitochondrial proteome and function in colon cancer cells. FASEB J. 2014-08-25 [PMID: 25154874]

Akbari M, Sykora P, Bohr VA. Slow mitochondrial repair of 5'-AMP renders mtDNA susceptible to damage in APTX deficient cells. Sci Rep. 2015-08-10 [PMID: 26256098]

Rolland SG, Motori E, Memar N et al. Impaired complex IV activity in response to loss of LRPPRC function can be compensated by mitochondrial hyperfusion. Proc Natl Acad Sci U S A. 2013-08-06 [PMID: 23878239]

Aamann MD, Sorensen MM, Hvitby C et al. Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. FASEB J. 2010-02-24 [PMID: 20181933]





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis.
Primary Antibodies are guaranteed for 1 year from date of receipt.

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