

Product Datasheet

mtTFA Antibody - BSA Free

NBP2-19437

Unit Size: 0.1 ml

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

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Publications: 8

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NBP2-19437

mtTFA Antibody - BSA Free

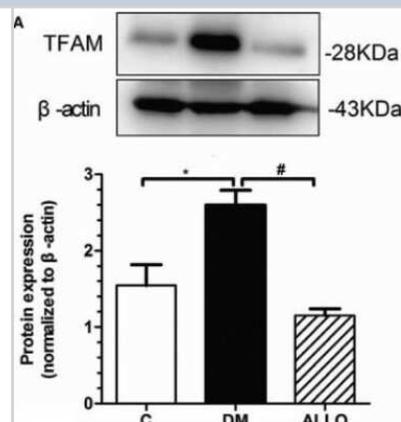
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	29 kDa

Product Description	
Description	Novus Biologicals Rabbit mtTFA Antibody - BSA Free (NBP2-19437) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-mtTFA Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7019
Gene Symbol	TFAM
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Use in Rabbit reported in scientific literature (PMID:29720500).
Immunogen	Recombinant protein encompassing a sequence within the center region of human mtTFA. The exact sequence is proprietary.

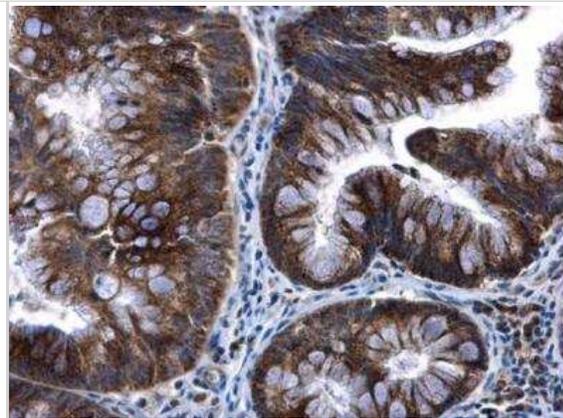
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000

Images

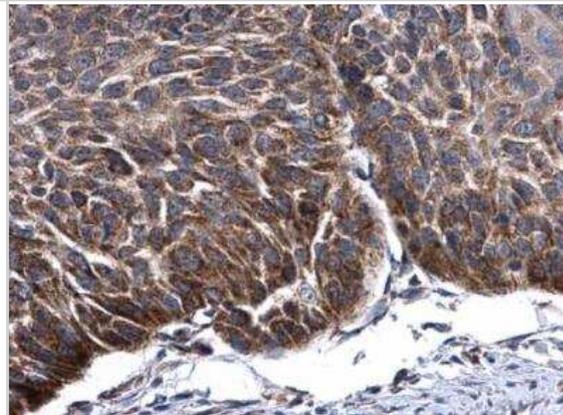
Western Blot: mtTFA Antibody [NBP2-19437] - Mitochondrial-related protein expression in LA tissue. Representative Western blot analysis of the protein expression in TFAM. Data is mean \pm SD, relative protein level was normalized to beta-actin. *Compared with the control group P<0.05. #Compared with the DM group P<0.05. DM indicates diabetes mellitus; NS, not significant; TFAM, mitochondrial transcription factor A. Image collected and cropped by CiteAb from the following publication (www.ahajournals.org/doi/10.1161/JAHA.118.008807) licensed under a CC-BY license.



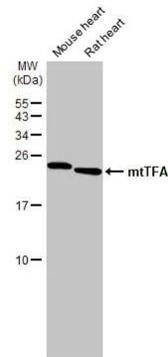
Immunohistochemistry-Paraffin: mtTFA Antibody [NBP2-19437] - Human colon cancer. mtTFA antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



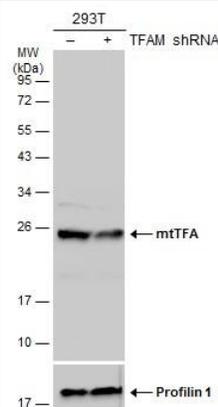
Immunohistochemistry-Paraffin: mtTFA Antibody [NBP2-19437] - Human esophagus cancer. mtTFA antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



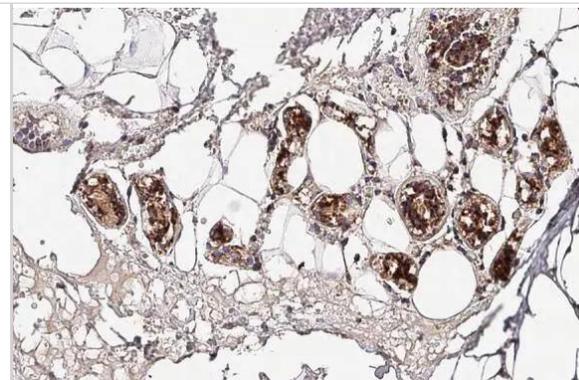
Western Blot: mtTFA Antibody [NBP2-19437] - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with mtTFA antibody (NBP2-19437) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



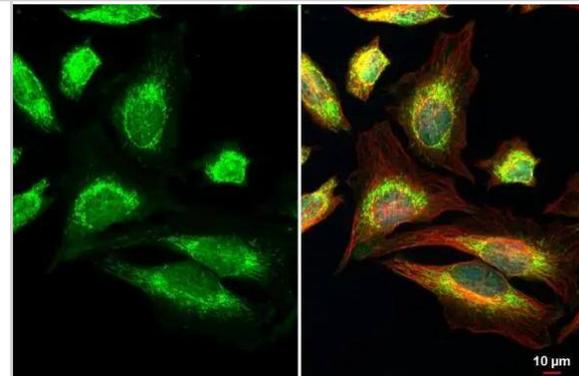
Western Blot: mtTFA Antibody [NBP2-19437] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with mtTFA antibody diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



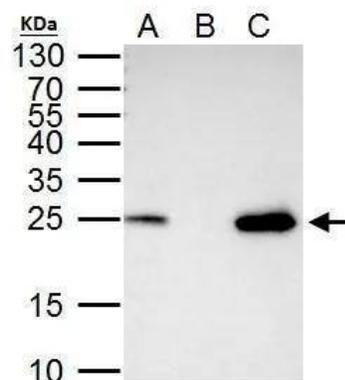
mtTFA antibody detects mtTFA protein at mitochondria by immunohistochemical analysis. Sample: Paraffin-embedded human breast carcinoma. mtTFA stained by mtTFA antibody (NBP2-19437) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



mtTFA antibody detects mtTFA protein at mito by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: mtTFA stained by mtTFA antibody (NBP2-19437) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000. Blue: Fluoroshield with DAPI .



mtTFA antibody immunoprecipitates mtTFA protein in IP experiments. IP Sample: 293T whole cell lysate/extract A. 40 ug 293T whole cell lysate/extract B. Control with 2 ug of preimmune rabbit IgG C. Immunoprecipitation of mtTFA protein by 2 ug of mtTFA antibody (NBP2-19437) 15% SDS-PAGE The immunoprecipitated mtTFA protein was detected by mtTFA antibody (NBP2-19437) diluted at 1:1000. EasyBlot anti-rabbit IgG was used as a secondary reagent.



Publications

Li X, Flynn ER, do Carmo JM et al. Direct Cardiac Actions of Sodium-Glucose Cotransporter 2 Inhibition Improve Mitochondrial Function and Attenuate Oxidative Stress in Pressure Overload-Induced Heart Failure *Frontiers in Cardiovascular Medicine* 2022-05-12 [PMID: 35647080] (Western Blot, Mouse, Rabbit)

Song Y, Yuan M, Zhang Z et al. Metformin protects diabetes-induced atrial mitochondrial from oxidative stress and improves mitochondrial biogenesis via the AMPK signaling pathway *Research Square* 2023-06-26 (WB, Rat)

Vijayan M, Reddy PH Reduced VDAC1, Maintained Mitochondrial Dynamics and Enhanced Mitochondrial Biogenesis in a Transgenic Tau Mouse Model of Alzheimer's Disease *International journal of molecular sciences* 2022-08-02 [PMID: 35955694] (IF/IHC, Mouse)

Details:

WB dilution used 1:1000, IHC dilution used 1:102

Huang Q, Wu D, Zhao J et al. TFAM loss induces nuclear actin assembly upon mDia2 malonylation to promote liver cancer metastasis *The EMBO journal* [PMID: 35451091]

Zhang Z, Zhang X, Meng L et al. Pioglitazone Inhibits Diabetes-Induced Atrial Mitochondrial Oxidative Stress and Improves Mitochondrial Biogenesis, Dynamics, and Function Through the PPAR-gamma/PGC-1 alpha Signaling Pathway *Frontiers in Pharmacology* 2021-06-14 [PMID: 34194324] (WB)

Yang Y, Zhao J et al. Xanthine Oxidase Inhibitor Allopurinol Prevents Oxidative Stress-Mediated Atrial Remodeling in Alloxan-Induced Diabetes Mellitus Rabbits. *J Am Heart Assoc* 2018-02-05 [PMID: 29720500] (WB, Rabbit, Mouse)

Yamanishi, K;Doe, N;Mukai, K;Ikubo, K;Hashimoto, T;Uwa, N;Sumida, M;El-Darawish, Y;Gamachi, N;Li, W;Kuwahara-Otani, S;Maeda, S;Watanabe, Y;Hayakawa, T;Yamanishi, H;Matsuyama, T;Yagi, H;Okamura, H;Matsunaga, H; Interleukin-18-deficient mice develop hippocampal abnormalities related to possible depressive-like behaviors *Neuroscience* 2019-04-11 [PMID: 30981863] (WB, Mouse)

Manczak M, Kandimalla R, Yin X, Hemachandra Reddy P. Mitochondrial division inhibitor 1 reduces dynamin-related protein 1 and mitochondrial fission activity. *Hum. Mol. Genet.* 2018-09-19 [PMID: 30239719] (WB, Mouse)





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Products Related to NBP2-19437

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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