

Product Datasheet

Mitofilin Antibody NB100-1919

Unit Size: 0.1 ml

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

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NB100-1919

Mitofilin Antibody

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera

Product Description	
Host	Rabbit
Gene ID	10989
Gene Symbol	IMMT
Species	Human, Mouse, Rat, Canine, Feline, Primate
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:33761951). Rat reactivity reported in scientific literature (PMID: 26729625)
Marker	Mitochondria Marker
Immunogen	Whole human recombinant Mitofilin [UniProt# Q16891]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000, Immunohistochemistry 1:200-1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200-1:500
Application Notes	This Mitofilin antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot, where two bands can be seen at approximately 87-90 kDa.

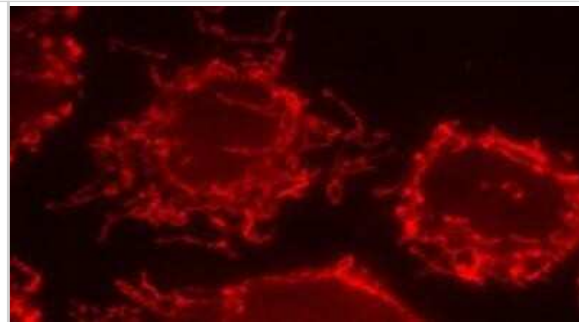
Images

Western Blot: Mitofilin Antibody [NB100-1919] - Western blot of dog testis. Total protein extract 1:2000 dilution of antibody.

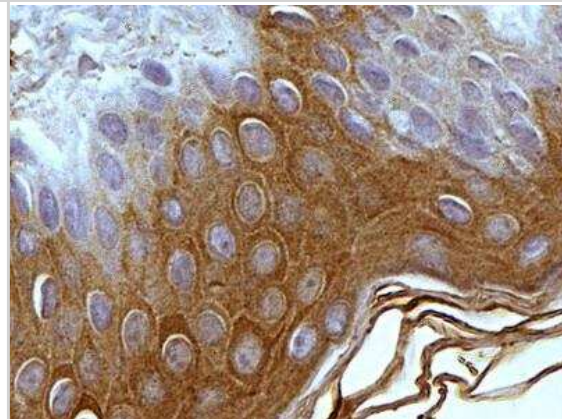


89 kDa
87 kDa

Immunocytochemistry/Immunofluorescence: Mitofilin Antibody [NB100-1919] - HeLa cells with antibody 1:500 dilution labeling mitochondria.



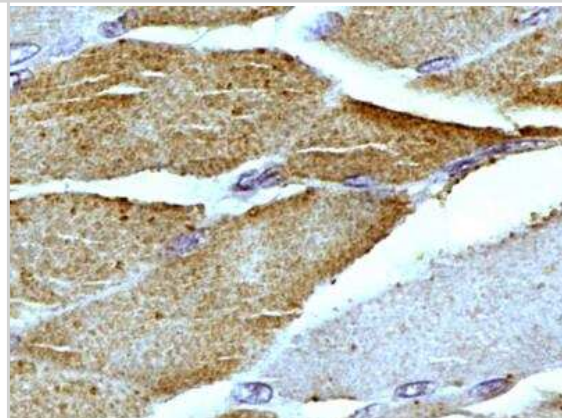
Immunohistochemistry-Paraffin: Mitofilin Antibody [NB100-1919] - IHC-P detection of Mitofilin/Mitochondrial inner membrane protein in a section of normal human skin using Mitofilin antibody at 1:200 dilution. The representative image shows a specific and expected granular staining of Mitofilin in the keratinocytes as well as the other cells of epidermal layer with no staining in basal cells. [60X Magnification]



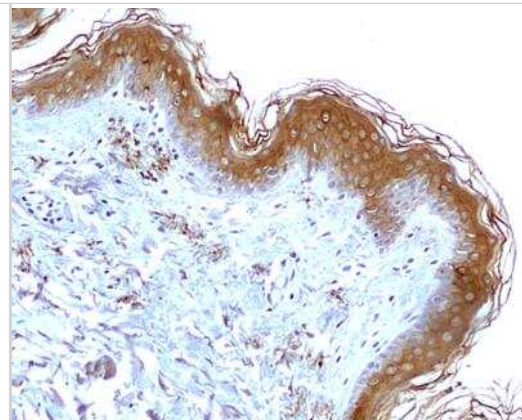
Western Blot: Mitofilin Antibody [NB100-1919] - COA7 pathological variants are import-defective. HEK293 cells that transiently expressed wild type or mutant COA7^{HIS} were solubilized, and the affinity purification of COA7^{HIS} was performed. The samples were analyzed by reducing and non-reducing SDS-PAGE and Western blot. Load: 3%. Eluate: 100%. Image collected and cropped by CiteAb from the following publication (<https://onlinelibrary.wiley.com/doi/10.15252/emmm.201809561>), licensed under a CC-BY license.



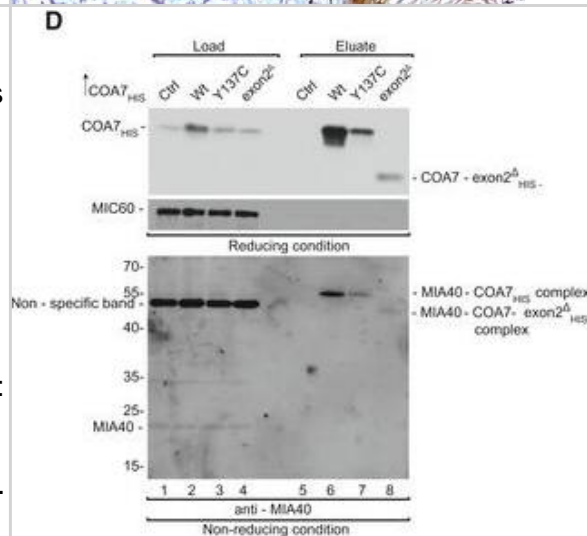
Immunohistochemistry-Paraffin: Mitofilin Antibody [NB100-1919] - IHC-P analysis of Mitofilin/Mitochondrial inner membrane protein in a transverse section of normal human skeletal muscle using Mitofilin antibody at 1:200 dilution. The myocytes showed an expected and very specific granular staining in the cytoplasm. [10X Magnification]



Immunohistochemistry-Paraffin: Mitofilin Antibody [NB100-1919] - IHC-P detection of Mitofilin/Mitochondrial inner membrane protein in a section of normal human skin using Mitofilin antibody at 1:200 dilution. Specific cytoplasmic positivity of Mitofilin was observed in the keratinocytes as well as other cells of the epidermal layer except for basal cells and dermal connective tissue. [10X Magnification]



Western Blot: Mitofilin Antibody [NB100-1919] - COA7 pathological variants are important defective AS schematic representation of wild type & mutant COA7. B Cellular protein extracts were isolated from HEK293 cells that were transfected with a plasmid that encoded wild type or mutant COA7. The samples were analyzed by reducing SDS-PAGE & Western blot. C Cellular fractions were prepared from HEK293 cells that were transfected with a plasmid that encoded wild type or mutant COA7. The fractions were analyzed by reducing SDS-PAGE & Western blot. T, total; C, cytosol; M, mitochondria. D HEK293 cells that transiently expressed wild type or mutant COA7^{HIS} were solubilized, & the affinity purification of COA7^{HIS} was performed. The samples were analyzed by reducing & non-reducing SDS-PAGE & Western blot. Load: 3%. Eluate: 100%. E Equal amounts of wild type & mutant radiolabeled [³⁵S]COA7 precursors were imported into mitochondria isolated from HEK293 cells. The samples were analyzed by reducing SDS-PAGE & autoradiography. The results of three biological replicates were analyzed, quantified, & normalized to wild type COA7 at 45 min. The data are expressed as a mean \pm SEM (n = 3). IAA, iodoacetamide. Source data are available online for this figure. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30885959>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chojnacka KJ, Elancheliyan P, Mussulini BHM et al. Ovarian carcinoma immunoreactive antigen-like protein 2 (OCIAD2) is a novel complex III-specific assembly factor in mitochondria *Molecular biology of the cell* 2022-04-01 [PMID: 35080992]

Abudu YP, Shrestha BK, Zhang W et al. SAMM50 acts with p62 in piecemeal basal- and OXPHOS-induced mitophagy of SAM and MICOS components *The Journal of cell biology* 2021-08-02 [PMID: 34037656]

Naia L, Pinho CM, Dentoni G et al. Neuronal cell-based high-throughput screen for enhancers of mitochondrial function reveals luteolin as a modulator of mitochondria-endoplasmic reticulum coupling *BMC biology* 2021-03-24 [PMID: 33761951] (WB, Mouse)

Qiu X, Jiang S, Xiao Y, et al. SOX2-dependent expression of dihydroorotate dehydrogenase regulates oral squamous cell carcinoma cell proliferation *International journal of oral science* 2021-01-29 [PMID: 33510132] (WB, Human)

Suh BK, Lee SA, Park C, et al. Schizophrenia-associated dysbindin modulates axonal mitochondrial movement in cooperation with p150glued *Molecular brain* 2021-01-18 [PMID: 33461576] (WB, Mouse)

Yoshida T, Das NA, Carpenter AJ et al. Minocycline reverses IL-17A/TRAF3IP2-mediated p38 MAPK/NF-kappaB/iNOS/NO-dependent cardiomyocyte contractile depression and death *Cell. Signal.* 2020-06-15 [PMID: 32553549] (WB, Mouse)

Gomez RC, Wawro P, Lis P et al. Membrane association but not identity is required for LRRK2 activation and phosphorylation of Rab GTPases *J. Cell Biol.* 2019-10-17 [PMID: 31624137]

Mohanraj K, Wasilewski M, Beninca C et al. Inhibition of proteasome rescues a pathogenic variant of respiratory chain assembly factor COA7 *EMBO Mol Med* 2019-03-18 [PMID: 30885959] (WB, Human)

Vukotic M, Nolte H, Konig T et al. Acylglycerol Kinase Mutated in Sengers Syndrome Is a Subunit of the TIM22 Protein Translocase in Mitochondria. *Mol Cell* 2017-07-14 [PMID: 28712724] (Human)

Wrobel L, Sokol AM, Chojnacka M, Chacinska A The presence of disulfide bonds reveals an evolutionarily conserved mechanism involved in mitochondrial protein translocase assembly. *Sci Rep* 2016-06-06 [PMID: 27265872] (WB)

Diokmetzidou A, Soumaka E, Kloukina I et al. Desmin and α B-crystallin interplay in maintenance of mitochondrial homeostasis and cardiomyocyte survival. *J. Cell. Sci.* 2016-08-26 [PMID: 27566162] (WB)

Nguyen NT, Now H, Kim WJ et al. Ubiquitin-like modifier FAT10 attenuates RIG-I mediated antiviral signaling by segregating activated RIG-I from its signaling platform *Sci Rep* 2016-03-21 [PMID: 26996158] (WB, Human)

More publications at <http://www.novusbio.com/NB100-1919>



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Products Related to NB100-1919

NBL1-11979	Mitofilin Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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