

Product Datasheet

Mitofusin 2 Antibody (4H8) - Azide and BSA Free H00009927-M03

Unit Size: 0.1 mg

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

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H00009927-M03

Mitofusin 2 Antibody (4H8) - Azide and BSA Free

Product Information

Unit Size	0.1 mg
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	Monoclonal
Clone	4H8
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Ascites
Buffer	In 1x PBS, pH 7.4

Product Description

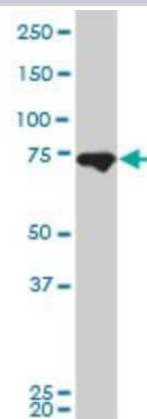
Description	Novus Biologicals Mouse Mitofusin 2 Antibody (4H8) - Azide and BSA Free (H00009927-M03) is a monoclonal antibody validated for use in IHC, WB and ELISA. Anti-Mitofusin 2 Antibody: Cited in 40 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	9927
Gene Symbol	MFN2
Species	Human, Rat
Immunogen	MFN2 (NP_055689, 661 a.a. ~ 757 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. FKRQFVEHASEKLQLVISYTGSNCSHQVQQEELSGTFAHLCQQVDVTRENLEQE IAAMNKKIEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details

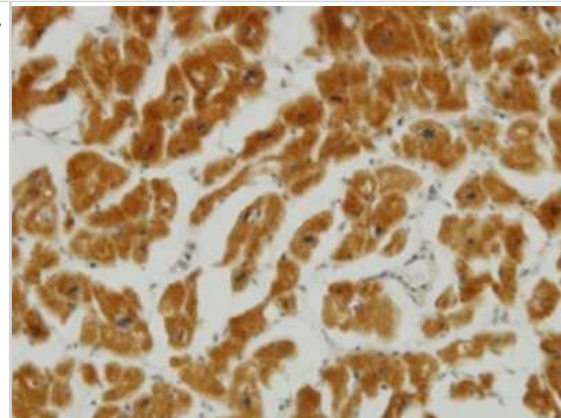
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, RNA Inhibition
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, RNA Inhibition

Images

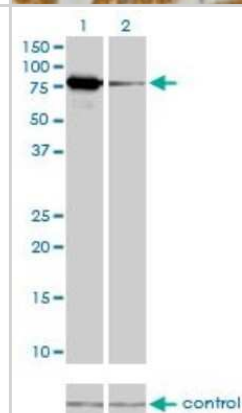
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 expression in PC-12 (Cat # L012V1).



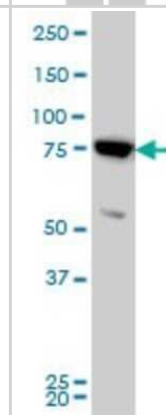
Immunohistochemistry-Paraffin: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human heart. Antibody concentration 5 ug/ml



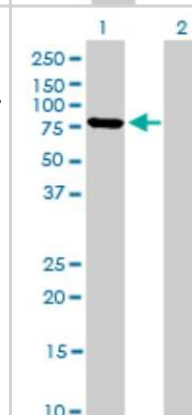
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 over-expressed 293 cell line, cotransfected with MFN2 Validated Chimera RNAi (Cat # H00009927-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with MFN2 monoclonal antibody (M03), clone 4H8 (Cat # H00009927-M03). GAPDH (36.1 kDa) used as specificity and loading control.



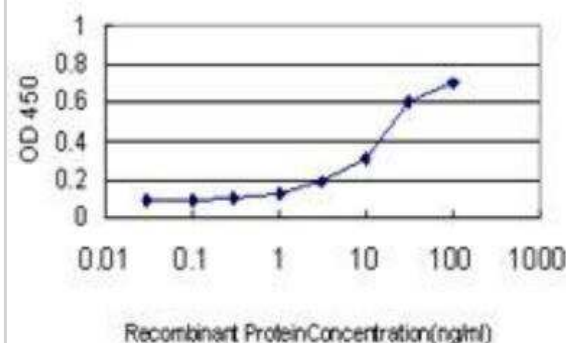
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 expression in HeLa (Cat # L013V1).



Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 expression in transfected 293T cell line by MFN2 monoclonal antibody (M03), clone 4H8. Lane 1: MFN2 transfected lysate (86.4 KDa). Lane 2: Non-transfected lysate.



ELISA: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Detection limit for recombinant GST tagged MFN2 is approximately 1ng/ml as a capture antibody.



Publications

Christina W, Alireza P, Sara B et al. GDAP1 loss of function inhibits the mitochondrial pyruvate dehydrogenase complex by altering the actin cytoskeleton. *Commun Biol.* 2022-06-03 [PMID: 35662277]

Stacchiotti A, Grossi I, Garcia-Gomez R et al. Melatonin Effects on Non-Alcoholic Fatty Liver Disease Are Related to MicroRNA-34a-5p/Sirt1 Axis and Autophagy. *Cells.* 2019-09-08 [PMID: 31500354]

Costa R, Peruzzo R, Bachmann M et al. Impaired Mitochondrial ATP Production Downregulates Wnt Signaling via ER Stress Induction. *Cell Rep.* 2019-08-20 [PMID: 31433973]

Sabouny R, Wong R, Lee-Glover L et al. Characterization of the C584R variant in the mtDNA depletion syndrome gene FBXL4, reveals a novel role for FBXL4 as a regulator of mitochondrial fusion. *Biochim Biophys Acta Mol Basis Dis.* 2019-08-20 [PMID: 31442532]

Morani F, Doccini S, Sirica R et al. Functional Transcriptome Analysis in ARSACS KO Cell Model Reveals a Role of Sacs in Autophagy. *Sci Rep.* 2019-08-15 [PMID: 31417125]

Faustini G, Marchesan E, Zonta L et al. Alpha-Synuclein Preserves Mitochondrial Fusion and Function in Neuronal Cells. *Oxid Med Cell Longev.* 2019-11-23 [PMID: 31871549]

Picca A, Sirago G, Pesce V et al. Administration of Enalapril Started Late in Life Attenuates Hypertrophy and Oxidative Stress Burden, Increases Mitochondrial Mass, and Modulates Mitochondrial Quality Control Signaling in the Rat Heart. *Biomolecules.* 2018-12-17 [PMID: 30563025]

Donkervoort S, Sabouny R, Yun P et al. MSTO1 mutations cause mtDNA depletion, manifesting as muscular dystrophy with cerebellar involvement. *Acta Neuropathol.* 2019-08-29 [PMID: 31463572]

Wolf C, Zimmermann R, Thaher O et al. The Charcot-Marie Tooth Disease Mutation R94Q in MFN2 Decreases ATP Production but Increases Mitochondrial Respiration under Conditions of Mild Oxidative Stress. *Cells.* 2019-10-21 [PMID: 31640251]

Ota A, Ishihara T, Ishihara N et al. Mitochondrial nucleoid morphology and respiratory function are altered in Drp1-deficient HeLa cells. *J Biochem.* 2019-12-24 [PMID: 31873747]

R Peruzzo, S Corrà, R Costa, M Brischigli, T Varanita, L Biasutto, C Rampazzo, D Ghezzi, L Leanza, M Zoratti, M Zeviani, C De Pittà, C Viscomi, R Costa, I Szabò Exploiting pyocyanin to treat mitochondrial disease due to respiratory complex III dysfunction *Nature Communications*, 2021-04-08;12(1):2103. 2021-04-08 [PMID: 33833234]

Deepaneeta S, Abhishek S, Aishika D et al. Cardiolipin-Mediated Alleviation of Mitochondrial Dysfunction Is a Neuroprotective Effect of Statin in Animal Model of Ischemic Stroke. *ACS Chem Neurosci.* 2023-01-27 [PMID: 36706354]

More publications at <http://www.novusbio.com/H00009927-M03>

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Products Related to H00009927-M03

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00009927-Q01-10ug	Recombinant Human Mitofusin 2 GST (N-Term) Protein

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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