

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

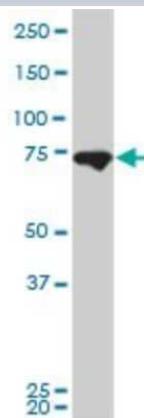
Product Information	
Unit Size	0.1 mg
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4H8
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Ascites
Buffer	In 1x PBS, pH 7.4

Product Description	
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.

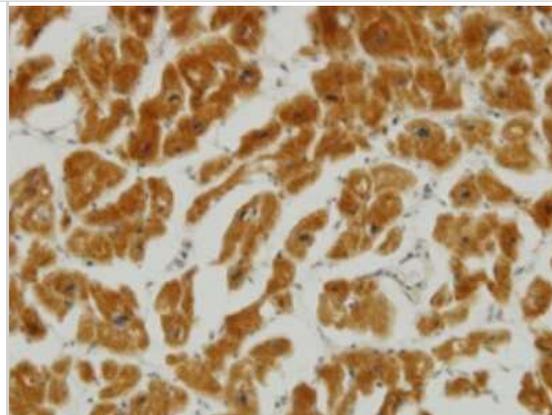
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, RNA Inhibition
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, RNA Inhibition

Images

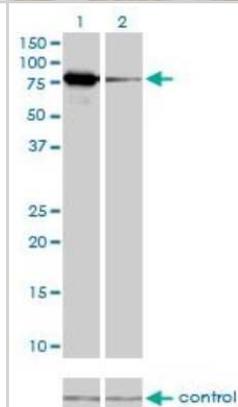
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 expression in PC-12 (Cat # L012V1).



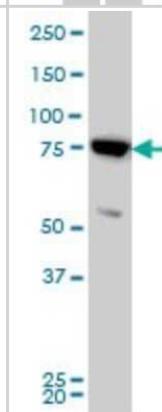
Immunohistochemistry-Paraffin: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human heart. Antibody concentration 5 ug/ml



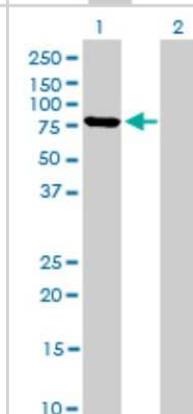
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 over-expressed 293 cell line, cotransfected with MFN2 Validated Chimera RNAi (Cat # H00009927-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with MFN2 monoclonal antibody (M03), clone 4H8 (Cat # H00009927-M03).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



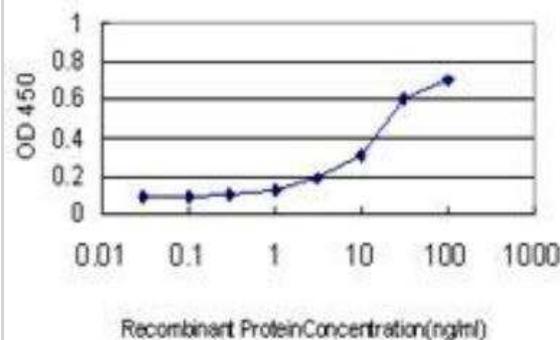
Western Blot: Mitofusin 2 Antibody (4H8) [H00009927-M03] - Analysis of MFN2 expression in HeLa (Cat # L013V1).



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>



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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