

# Product Datasheet

## Mitofusin 2 Antibody (6A8) - Azide and BSA Free H00009927-M01

Unit Size: 0.1 mg

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

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**H00009927-M01**

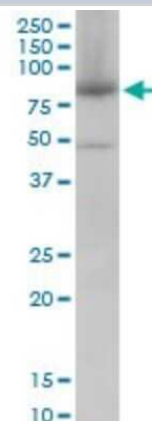
Mitofusin 2 Antibody (6A8) - Azide and BSA Free

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	6A8
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
Product Description	
<b>Description</b>	Novus Biologicals Mouse Mitofusin 2 Antibody (6A8) - Azide and BSA Free (H00009927-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Mitofusin 2 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	9927
<b>Gene Symbol</b>	MFN2
<b>Species</b>	Human, Mouse, Rat
<b>Specificity/Sensitivity</b>	MFN2 (6A8)
<b>Immunogen</b>	MFN2 (NP_055689, 661 a.a. ~ 757 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. FKRQFVEHASEKLQLVISYTGSNCSHQVQQELSGTFAHLCQQVDVTRENLEQE IAAMNKKIEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Antibody reactive against cell lysate for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

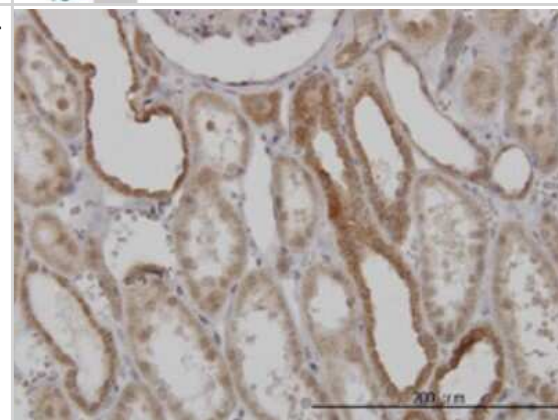


**Images**

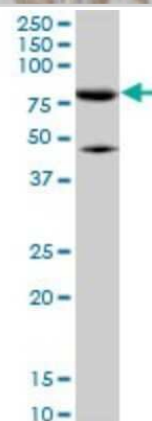
Western Blot: Mitofusin 2 Antibody (6A8) [H00009927-M01] - MFN2 monoclonal antibody (M01), clone 6A8. Analysis of MFN2 expression in PC-12.



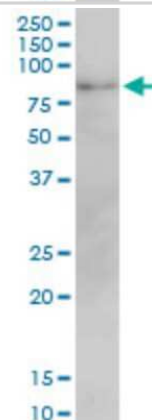
Immunohistochemistry-Paraffin: Mitofusin 2 Antibody (6A8) [H00009927-M01] - Analysis of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human kidney. Antibody concentration 3 ug/ml.



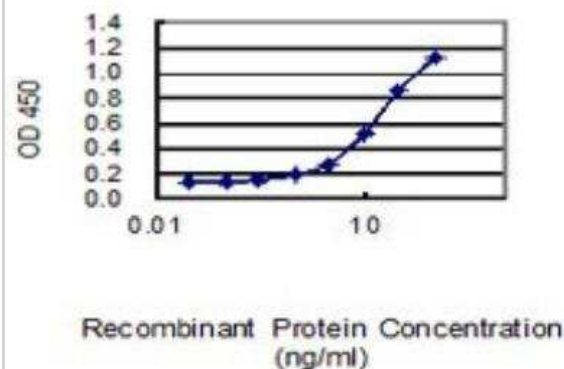
Western Blot: Mitofusin 2 Antibody (6A8) [H00009927-M01] - MFN2 monoclonal antibody (M01), clone 6A8. Analysis of MFN2 expression in HeLa.



Western Blot: Mitofusin 2 Antibody (6A8) [H00009927-M01] - MFN2 monoclonal antibody (M01), clone 6A8. Analysis of MFN2 expression in NIH/3T3.



ELISA: Mitofusin 2 Antibody (6A8) [H00009927-M01] - Detection limit for recombinant GST tagged MFN2 is 0.3 ng/ml as a capture antibody.



## Publications

Hsieh CH, Li L, Vanhauwaert R et al. Miro1 Marks Parkinson's Disease Subset and Miro1 Reducer Rescues Neuron Loss in Parkinson's Models Cell Metab. 2019-09-23 [PMID: 31564441]

Bharat V, Hsieh CH, Wang X Mitochondrial Defects in Fibroblasts of Pathogenic MAPT Patients Frontiers in cell and developmental biology 2021-11-03 [PMID: 34805172]

Irene L, Christian B, Marco B et al. Coenzyme Q biosynthesis inhibition induces HIF-1 $\alpha$  stabilization and metabolic switch toward glycolysis. FEBS J. 2020-09-20 [PMID: 32898935]

Del V, Fogazza M, Musiani F et al. Deciphering OPA1 mutations pathogenicity by combined analysis of human, mouse and yeast cell models. Biochim Biophys Acta Mol Basis Dis. 2018-08-04 [PMID: 30293569]

Jason V, Edwin C Mitofusin 2 sustains the axonal mitochondrial network to support presynaptic Ca<sup>2+</sup> homeostasis and the synaptic vesicle cycle in rat hippocampal axons. J Neurosci. 2023-03-30 [PMID: 36997314]

Maresca A, Del V, Capristo M et al. DNMT1 mutations leading to neurodegeneration paradoxically reflect on mitochondrial metabolism. Hum Mol Genet. 2020-01-27 [PMID: 31984424]

Malek K, Jerome P, Lydie N et al. Novel role of Tieg1 in muscle metabolism and mitochondrial oxidative capacities. Acta Physiol (Oxf). 2019-10-19 [PMID: 31560161]

Andres V, Alfredo G, Javier D et al. The smoothed agonist SAG reduces mitochondrial dysfunction and neurotoxicity of frataxin-deficient astrocytes. J Neuroinflammation. 2022-04-12 [PMID: 35413853]

Serena A, Valentina D, Mario F et al. Drug repositioning as a therapeutic strategy for neurodegenerations associated with OPA1 mutations. Hum Mol Genet. 2021-01-21 [PMID: 33231680]

Ferreira JCB, Campos JC, Qvit N et al. A selective inhibitor of mitofusin 1- $\beta$ IIPKC association improves heart failure outcome in rats. Nat Commun. 2019-04-09 [PMID: 30659190]

Zhao Y, Sun X, Hu D et al. ATAD3A oligomerization causes neurodegeneration by coupling mitochondrial fragmentation and bioenergetics defects. Nat Commun. 2019-03-26 [PMID: 30914652]

Sacks J, Mulya A, Fealy CE et al. Effect of Roux-en-Y gastric bypass on liver mitochondrial dynamics in a rat model of obesity. Physiol Rep 2018-01-09 [PMID: 29464885]

More publications at <http://www.novusbio.com/H00009927-M01>



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### **Products Related to H00009927-M01**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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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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