

# 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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Updated 2/21/2025 v.20.1

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**H00009927-M01**

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

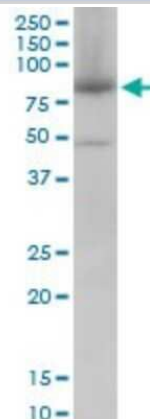
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6A8
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Host	Mouse
Gene ID	9927
Gene Symbol	MFN2
Species	Human, Mouse, Rat
Specificity/Sensitivity	MFN2 (6A8)
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.

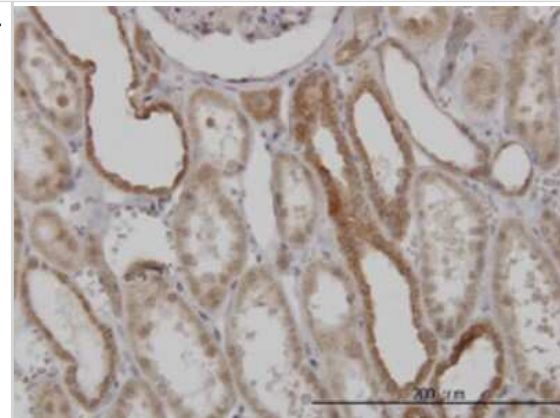
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactive against cell lysate for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

**Images**

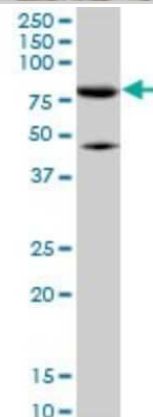
Western Blot: Mitofusin 2 Antibody (6A8) [H00009927-M01] - MFN2 monoclonal antibody (M01), clone 6A8. Analysis of MFN2 expression in PC-12.



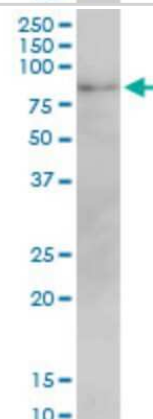
Immunohistochemistry-Paraffin: Mitofusin 2 Antibody (6A8) [H00009927-M01] - Analysis of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human kidney. Antibody concentration 3 ug/ml.



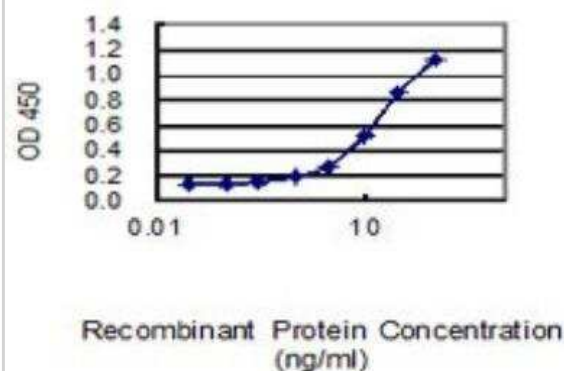
Western Blot: Mitofusin 2 Antibody (6A8) [H00009927-M01] - MFN2 monoclonal antibody (M01), clone 6A8. Analysis of MFN2 expression in HeLa.



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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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

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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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