

MFN2 Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a partial recombinant MFN2.****Catalog # AT2852a****Specification**

MFN2 Antibody (monoclonal) (M03) - Product Information

Application	WB, IHC, E
Primary Accession	O95140
Other Accession	NM_014874
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	86402

MFN2 Antibody (monoclonal) (M03) - Additional Information**Gene ID** 9927**Other Names**

Mitofusin-2, 365-, Transmembrane GTPase MFN2, MFN2, CPRP1, KIAA0214

Target/Specificity

MFN2 (NP_055689, 661 a.a. ~ 757 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

MFN2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

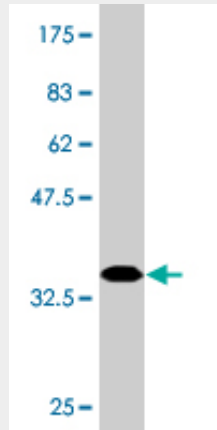
MFN2 Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

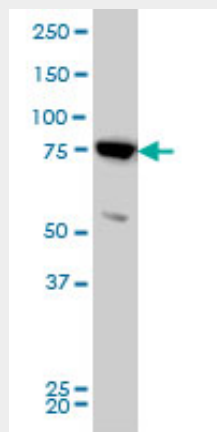
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

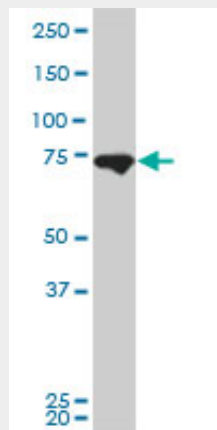
MFN2 Antibody (monoclonal) (M03) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 kDa) .

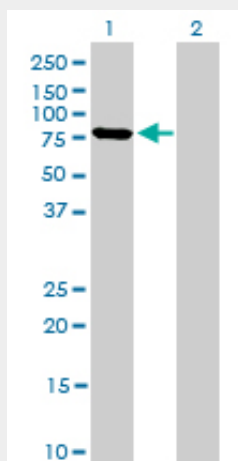


MFN2 monoclonal antibody (M03), clone 4H8 Western Blot analysis of MFN2 expression in HeLa (Cat # AT2852a)



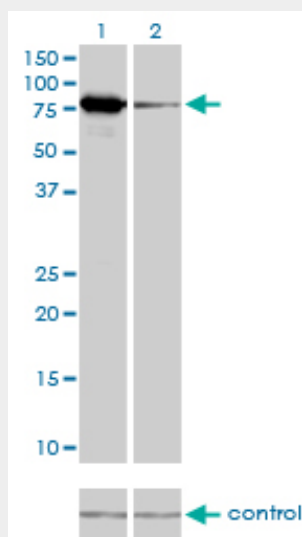
MFN2 monoclonal antibody (M03), clone 4H8. Western Blot analysis of MFN2 expression in PC-12

((Cat # AT2852a)

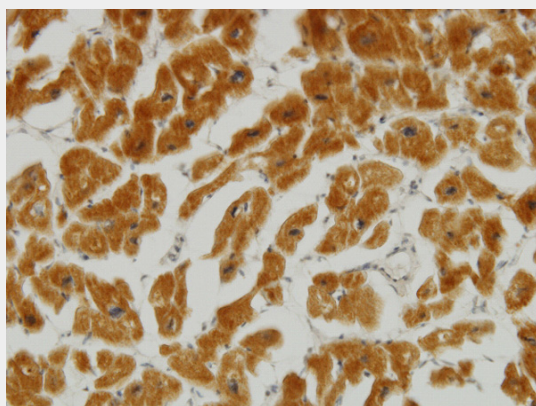


Western Blot analysis of MFN2 expression in transfected 293T cell line by MFN2 monoclonal antibody (M03), clone 4H8.

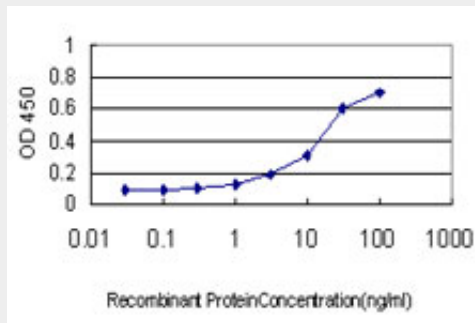
Lane 1: MFN2 transfected lysate(86.4 kDa).
Lane 2: Non-transfected lysate.



Western blot analysis of MFN2 over-expressed 293 cell line, cotransfected with MFN2 Validated Chimera RNAi ((Cat # AT2852a)



Immunoperoxidase of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human heart. [antibody concentration 5 ug/ml]



Detection limit for recombinant GST tagged MFN2 is approximately 1ng/ml as a capture antibody.

MFN2 Antibody (monoclonal) (M03) - Background

This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified.

MFN2 Antibody (monoclonal) (M03) - References

- Exercise training can induce cardiac autophagy at end-stage chronic conditions: Insights from a graft-versus-host-disease mouse model. Fiuza-Luces C, Delmiro A, Soares-Miranda L, Gonzalez-Murillo A, Martinez-Palacios J, Ramirez M, Lucia A, Moran M. *Brain Behav Immun*. 2013 Nov 14. pii: S0889-1591(13)00538-2. doi: 10.1016/j.bbi.2013.11.007.
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- Mitofusin-2 independent juxtaposition of endoplasmic reticulum and mitochondria: an ultrastructural study. Cosson P, Marchetti A, Ravazzola M, Orzi L. *PLoS One*. 2012;7(9):e46293. doi: 10.1371/journal.pone.0046293. Epub 2012 Sep 28.
- Mitochondrial bioenergetics and dynamics interplay in complex i-deficient fibroblasts. Moran M, Rivera H, Sanchez-Arago M, Blazquez A, Merinero B, Ugalde C, Arenas J, Cuezva JM, Martin MA. *Biochim Biophys Acta*. 2010 May;1802(5):443-453. Epub 2010 Feb 11.
- PGC1{alpha} relationship with skeletal muscle palmitate oxidation is not present with obesity, despite maintained ained PGC1{alpha} and PGC1{beta} protein. Holloway GP, Perry CG, Thrush AB, Heigenhauser GJ, Dyck DJ, Bonen A, Spriet LL. *Am J Physiol Endocrinol Metab*. 2008 Jun;294(6):E1060-9. Epub 2008 Mar 18.