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MFN2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MFN2.
Catalog # AT2851a

Specification

MFN2 Antibody (monoclonal) (M01) - Product Information

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

MFN2 Antibody (monoclonal) (M01) - 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
IHC~~1:100~500

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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

MFN2 Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot

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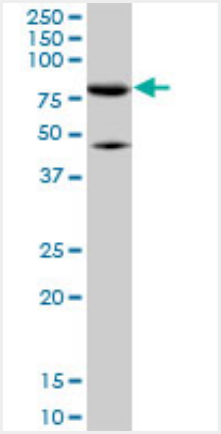
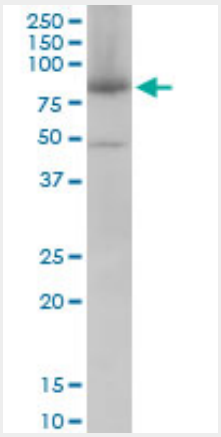
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

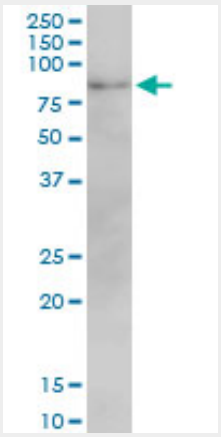
MFN2 Antibody (monoclonal) (M01) - Images



MFN2 monoclonal antibody (M01), clone 6A8. Western Blot analysis of MFN2 expression in HeLa (Cat # L013V1).



MFN2 monoclonal antibody (M01), clone 6A8. Western Blot analysis of MFN2 expression in PC-12((Cat # AT2851a)



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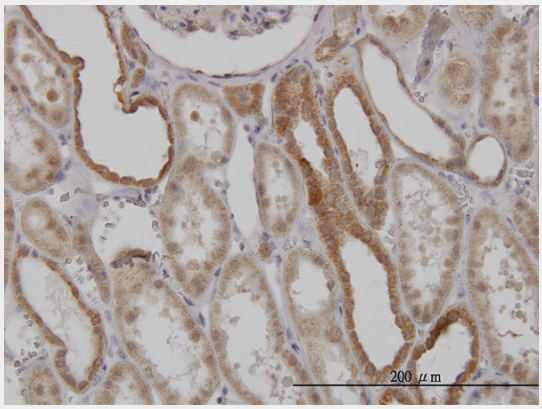
MFN2 monoclonal antibody (M01), clone 6A8. Western Blot analysis of MFN2 expression in NIH/3T3((Cat # AT2851a)



Immunoperoxidase of monoclonal antibody to MFN2 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]

MFN2 Antibody (monoclonal) (M01) - 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) (M01) - References

Mitofusin-2 protects against cold stress-induced cell injury in HEK293 cells. Zhang W, et al. Biochem Biophys Res Commun, 2010 Jun 25. PMID 20580691.Severe CMT type 2 with fatal encephalopathy associated with a novel MFN2 splicing mutation. Boaretto F, et al. Neurology, 2010 Jun 8. PMID 20530328.Expression of mitofusin 2(R94Q) in a transgenic mouse leads to Charcot-Marie-Tooth neuropathy type 2A. Cartoni R, et al. Brain, 2010 May. PMID 20418531.MFN2 point mutations occur in 3.4% of Charcot-Marie-Tooth families. An investigation of 232 Norwegian CMT families. Braathen GJ, et al. BMC Med Genet, 2010 Mar 29. PMID 20350294.Notch-activated signaling cascade interacts with mitochondrial remodeling proteins to regulate cell survival. Perumalsamy LR, et al. Proc Natl Acad Sci U S A, 2010 Apr 13. PMID 20339081.