

Mitofusin 2 Rabbit mAb
Catalog # AP78680**Specification****Mitofusin 2 Rabbit mAb - Product Information**

Application	WB, IHC, IF
Primary Accession	O95140
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	86402

Mitofusin 2 Rabbit mAb - Additional Information

Gene ID 9927

Other Names

MFN2

Dilution

WB~~1/500-1/1000

IHC~~1/100-1/200

IF~~1/50-1/200

Format

Liquid

Mitofusin 2 Rabbit mAb - Protein Information**Name** MFN2 {ECO:0000303|PubMed:12598526, ECO:0000312|HGNC:HGNC:16877}**Function**

Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed:11181170, PubMed:11950885, PubMed:19889647, PubMed:26214738, PubMed:28114303). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed:28114303). Overexpression induces the formation of mitochondrial networks (PubMed:28114303). Membrane clustering requires GTPase activity and may involve a major rearrangement of the coiled coil domains (Probable). Plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes (By similarity). Plays an important role in the regulation of vascular smooth muscle cell proliferation (By similarity). Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy) (PubMed:<a

<http://www.uniprot.org/citations/23620051>). Is required for PRKN recruitment to dysfunctional mitochondria (PubMed:[23620051](http://www.uniprot.org/citations/23620051)). Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress (By similarity). Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions (By similarity).

Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein Note=Colocalizes with BAX during apoptosis

Tissue Location

Ubiquitous; expressed at low level. Highly expressed in heart and kidney.

Mitofusin 2 Rabbit mAb - 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](#)

Mitofusin 2 Rabbit mAb - Images



