

Mitofusin 2 Rabbit mAb

Catalog # AP78680

Product Information

Application WB, IHC-P, IF, ICC

Primary Accession 095140

Reactivity Rat, Human, Mouse

Host Rabbit

Clonality Monoclonal Antibody

Isotype IgG

Conjugate Unconjugated

Immunogen A synthesized peptide derived from human Mitofusin 2

Purification Affinity Chromatography

Calculated MW 86402

Additional Information

Gene ID 9927

Other Names MFN2

Dilution WB~~1/500-1/1000 IHC-P~~N/A IF~~1/50-1/200 ICC~~N/A

Format Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02%

sodium azide and 50% glycerol.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

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:<u>11181170</u>, PubMed:<u>11950885</u>,

PubMed: 1989647, PubMed: 26214738, PubMed: 28114303). Mitochondria are

highly dynamic organelles, and their morphology is determined by the

equilibrium between mitochondrial fusion and fission events

(PubMed:<u>28114303</u>). Overexpression induces the formation of mitochondrial networks (PubMed:<u>28114303</u>). 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:<u>23620051</u>). Is required for PRKN recruitment to dysfunctional mitochondria (PubMed:<u>23620051</u>). 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).

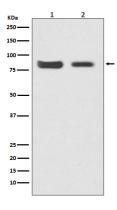
Cellular Location

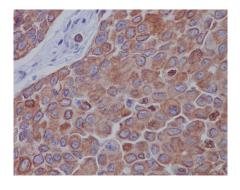
Mitochondrion outer membrane; Multi-pass membrane protein Note=Colocalizes with BAX during apoptosis

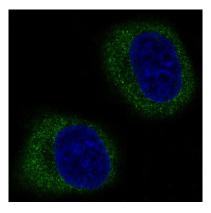
Tissue Location

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

Images







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