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KD-Validated Anti-MFN1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1872

Product Information

Application	WB, FC
Primary Accession	Q8IWA4
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB4970
Calculated MW	84160
Gene Name	MFN1
Aliases	MFN1; Mitofusin 1; Transmembrane GTPase MFN1; Mitofusin-1; Fzo Homolog; FLJ20693; Mitochondrial Transmembrane GTPase FZO-2; Mitochondrial Transmembrane GTPaseFzo-1; Putative Transmembrane GTPase; EC 3.6.5.-; EC 3.6.5; Hfzo1; Hfzo2
Immunogen	A synthesized peptide derived from rat Mitofusin 1(UniProt Entry: Q8R4Z9)

Additional Information

Gene ID	55669
Other Names	Mitofusin-1, 3.6.5.-, Fzo homolog, Transmembrane GTPase MFN1, MFN1

Protein Information

Name	MFN1
Function	Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed:12475957, PubMed:12759376, PubMed:27920125, PubMed:28114303). Membrane clustering requires GTPase activity (PubMed:27920125). It may involve a major rearrangement of the coiled coil domains (PubMed:27920125, PubMed:28114303). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed:12475957, PubMed:12759376). Overexpression induces the formation of mitochondrial networks (in vitro) (PubMed:12759376). Has low GTPase activity (PubMed:27920125, PubMed:28114303).
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein
Tissue Location	Detected in kidney and heart (at protein level) (PubMed:12759376). Ubiquitous (PubMed:11950885, PubMed:12759376) Expressed at slightly higher level in kidney and heart (PubMed:12759376). Isoform 2 may be overexpressed in some tumors, such as lung cancers (PubMed:11751411).

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