

Mitofusin1 Antibody

Rabbit mAb

Catalog # AP91045

Product Information

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| Application | WB, FC, IP |
| Primary Accession | Q8IWA4 |
| Reactivity | Human |
| Clonality | Monoclonal |
| Other Names | MFN1; Fzo homolog; Hfzo2; Mitofusin-1; Hfzo1; Mitofusin1; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 84160 |

Additional Information

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| Dilution | WB 1:1000~1:5000 IP 1:20 FC 1:20 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human Mitofusin1 |
| Description | Mitofusins are mitochondrial transmembrane GTPases that function to regulate mitochondrial fusion, a process that occurs in concert with mitochondrial division and is necessary for the maintenance of structural and genetic mitochondrial integrity. Two mitofusins have been described in mammals, mitofusin-1 and -2, which share 60% amino acid identity and appear to function coordinately to regulate mitochondrial fusion. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

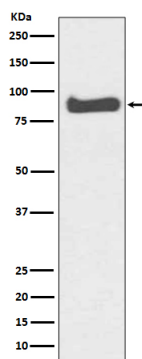
Protein Information

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| 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).

Images



Western blot analysis of Mitofusin1 expression in K562 cell lysate.

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