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**Product Name: MFN1 Rabbit Polyclonal Antibody****Catalog #: APRab13849**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human, Mouse, Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.12% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000
<b>Molecular Weight</b>	85kDa

**Antigen Information**

<b>Gene Name</b>	MFN1
<b>Alternative Names</b>	Mitofusin-1 (EC 3.6.5.-) (Fzo homolog) (Transmembrane GTPase MFN1)
<b>Gene ID</b>	55669.0
<b>SwissProt ID</b>	Q8IWA4
<b>Immunogen</b>	Synthesized peptide derived from human MFN1 AA range: 163-213

**Background**

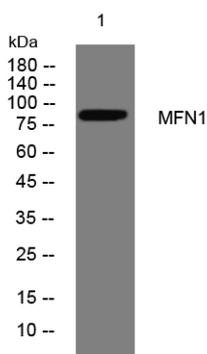
The protein encoded by this gene is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane proteins that interact with each other to facilitate

mitochondrial targeting. [provided by RefSeq, Jul 2008],catalytic activity:GTP + H(2)O = GDP + phosphate.,function:Essential transmembrane GTPase, which mediates mitochondrial fusion. Fusion of mitochondria occurs in many cell types and constitutes an important step in mitochondria morphology, which is balanced between fusion and fission. MFN1 acts independently of the cytoskeleton. Overexpression induces the formation of mitochondrial networks.,similarity:Belongs to the mitofusin family.,subunit:Forms homomultimers and heteromultimers with MFN2. Multimerization, which is probably mediated by the coiled coil region, may play an essential role in mitochondrion fusion (By similarity). Participates in a high molecular weight multiprotein complex.,tissue specificity:Ubiquitous. Expressed at slightly higher level in kidney and heart. Isoform 2 may be overexpressed in some tumors, such as lung cancers.,

## Research Area

Neuroscience; Neurology process; Neurodegenerative disease; Parkinson's disease; Tags & Cell Markers; Subcellular Markers; Organelles; Mitochondria; Signal Transduction; Second Messenger; Nucleotide Messenger; GTP; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial markers; Mitophagy fission and fusion

## Image Data



Western blot analysis of lysates from HCT116 cells, MFN1 Rabbit Polyclonal Antibody was diluted at 1:1000, 4°over night