

**MFN1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16037c**

**Specification**

**MFN1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IWA4</a>
Other Accession	<a href="#">NP_284941.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	84160
Antigen Region	353-381

**MFN1 Antibody (Center) - Additional Information**

**Gene ID** 55669

**Other Names**

Mitofusin-1, 365-, Fzo homolog,  
Transmembrane GTPase MFN1, MFN1

**Target/Specificity**

This MFN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 353-381 amino acids from the Central region of human MFN1.

**Dilution**

WB~~1:1000

**Format**

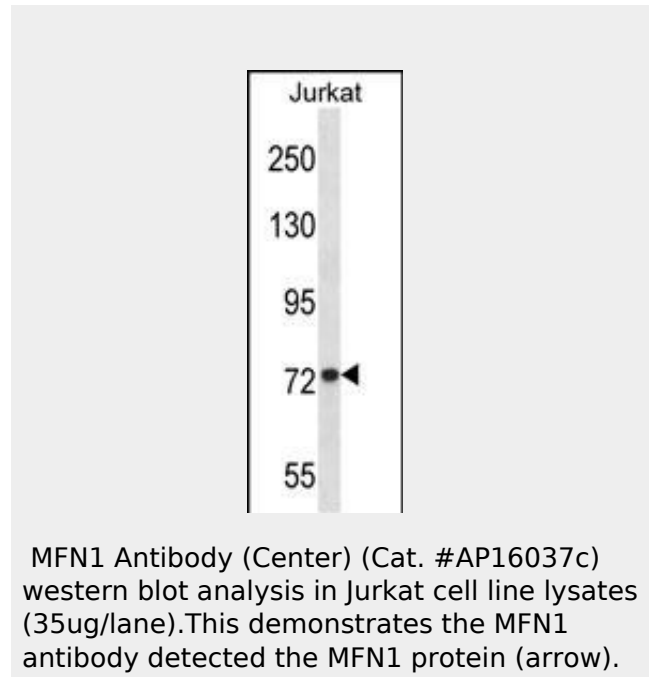
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MFN1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.



**MFN1 Antibody (Center) - 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.

**MFN1 Antibody (Center) - References**

- Perumalsamy, L.R., et al. Proc. Natl. Acad. Sci. U.S.A. 107(15):6882-6887(2010)
- Park, Y.Y., et al. J. Cell. Sci. 123 (PT 4), 619-626 (2010) :
- Onoguchi, K., et al. PLoS Pathog. 6 (7), E1001012 (2010) :
- Waxman, A.B., et al. Am. J. Respir. Cell Mol. Biol. 41(4):385-396(2009)
- Wolf, C., et al. BMC Med. Genet. 10, 91 (2009) :

**MFN1 Antibody (Center) - Protein Information****Name MFN1****Function**

Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed: [12475957](http://www.uniprot.org/citations/12475957)), PubMed: [12759376](http://www.uniprot.org/citations/12759376), PubMed: [27920125](http://www.uniprot.org/citations/27920125), PubMed: [28114303](http://www.uniprot.org/citations/28114303)). Membrane clustering requires GTPase activity (PubMed: [27920125](http://www.uniprot.org/citations/27920125)). It may involve a major rearrangement of the coiled coil domains (PubMed: [27920125](http://www.uniprot.org/citations/27920125), PubMed: [28114303](http://www.uniprot.org/citations/28114303)). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed: [12475957](http://www.uniprot.org/citations/12475957), PubMed: [12759376](http://www.uniprot.org/citations/12759376)). Overexpression induces the formation of mitochondrial networks (in vitro) (PubMed: [12759376](http://www.uniprot.org/citations/12759376)). Has low GTPase activity (PubMed: [27920125](http://www.uniprot.org/citations/27920125), PubMed: [28114303](http://www.uniprot.org/citations/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).

### **MFN1 Antibody (Center) - 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](#)

### **MFN1 Antibody (Center) - Citations**

- [Dynamic PGAM5 multimers dephosphorylate BCL-xL or FUNDC1 to regulate mitochondrial and cellular fate](#)