

MFN1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14182**Specification**

MFN1 antibody - middle region - Product Information

Application	WB
Primary Accession	Q8R4Z9
Other Accession	NM_033540 , NP_284941
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84 KDa

MFN1 antibody - middle region - Additional Information**Gene ID** 192647**Alias Symbol** DKFZp762F247, FLJ20693, MGC41806, hfzo1, hfzo2**Other Names**

Mitofusin-1, 3.6.5.-, Mitochondrial transmembrane GTPase FZO1B, Transmembrane GTPase MFN1, Mfn1, Fzo1b

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-MFN1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

MFN1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

MFN1 antibody - middle region - Protein Information**Name** Mfn1**Synonyms** Fzo1b**Function**Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion (PubMed: [14561718](http://www.uniprot.org/citations/14561718)), PubMed: [12589796](http://www.uniprot.org/citations/12589796)).

Membrane clustering requires GTPase activity. It may involve a major rearrangement of the coiled coil domains (By similarity). Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events (PubMed:14561718). Overexpression induces the formation of mitochondrial networks (in vitro) (PubMed:14561718). Has low GTPase activity (By similarity).

Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Location

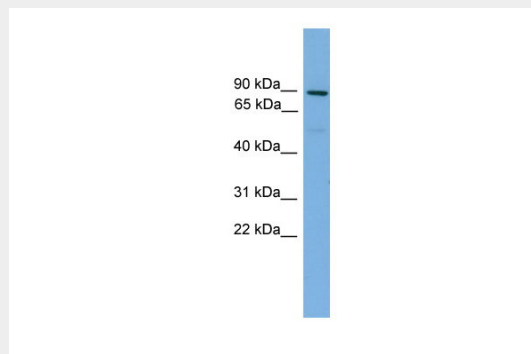
Ubiquitous. In brain, it is expressed at weaker level than MFN2, while it is expressed at a higher level than MFN2 in heart and testis. Expressed at high level in elongating spermatids of seminiferous tubules.

MFN1 antibody - middle region - 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 - middle region - Images



WB Suggested Anti-MFN1 Antibody Titration: 0.2-1 µg/ml
Positive Control: Human Placenta

MFN1 antibody - middle region - References

Eura Y.,et al.J. Biochem. 134:333-344(2003).
Ishihara N.,et al.Biochem. Biophys. Res. Commun. 301:891-898(2003).
Honda S.,et al.Biochem. Biophys. Res. Commun. 311:424-432(2003).
Eura Y.,et al.J. Cell Sci. 119:4913-4925(2006).