SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Mitofusin 2 antibody

Catalog Number: SL23685R

FOR RESEARCH USE ONLY

[DATASHEET]

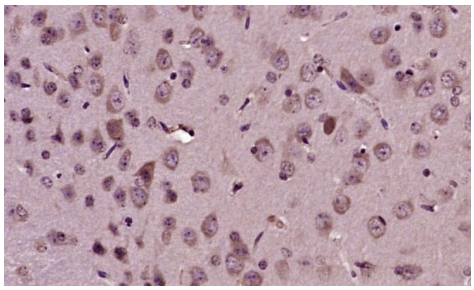
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Mitofusin 2
Immunogen:	KLH conjugated synthetic peptide derived from human Mitofusin 2: 50-150/757
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	83kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]. **Subunit:** Forms homomultimers and heteromultimers with MFN1. **Subcellular Location:** Mitochondrion outer membrane; Multi-pass membrane protein.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Tissue Specificity: Ubiquitous; expressed at low level. Highly expressed in heart and kidney. DISEASE: Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 2A2 (CMT2A2) [MIM:609260]. CMT2A2 is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy. Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 6 (CMT6) [MIM:601152]; also referred to as autosomal dominant hereditary motor and sensory neuropathy VI (HMSN6). CMT6 is an autosomal dominant form of axonal CMT associated with optic atrophy. **Similarity:** Belongs to the mitofusin family. **Database links:** **Entrez Gene:** 9927 Human **Entrez Gene:** 170731 Mouse **Entrez Gene:** 64476 Rat Omim: 608507 Human **SwissProt:** O95140 Human **SwissProt:** Q80U63 Mouse **SwissProt:** Q8R500 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Mitofusin 2) Polyclonal Antibody, Unconjugated (SL23685R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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