SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Mitofusin 2 antibody

SL2988R

Product Name:	Mitofusin 2
Chinese Name:	Mitochondrion融合蛋白Mfn2抗体
Alias:	CMT2A; CMT2A2; MARF; CPRP 1; CPRP1; Fzo; HSG; hyperplasia suppressor gene; Hypertension related protein 1; MFN 2; Mfn2; MFN2_HUMAN; Mitochondrial assembly regulatory factor; Mitofusin-2; Mitofusin2; Transmembrane GTPase MFN2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	83kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Mitofusin 2:1-120/757
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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.

SWISS:
O95140

Gene ID:
9927

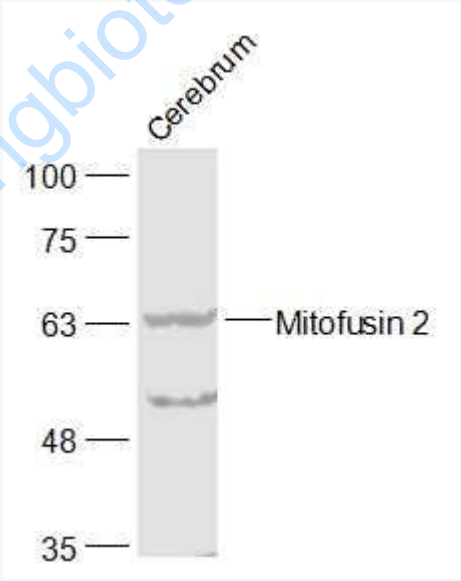
Database links:

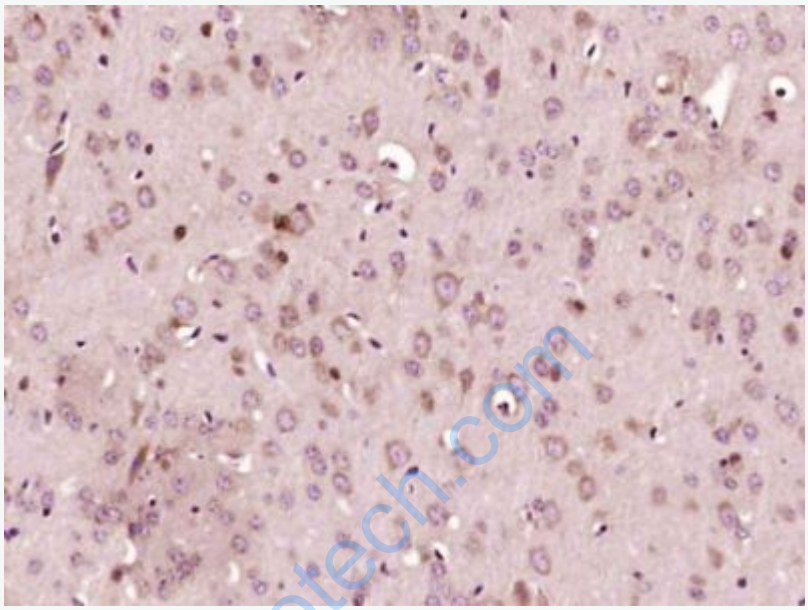
Entrez Gene: 9927 Human

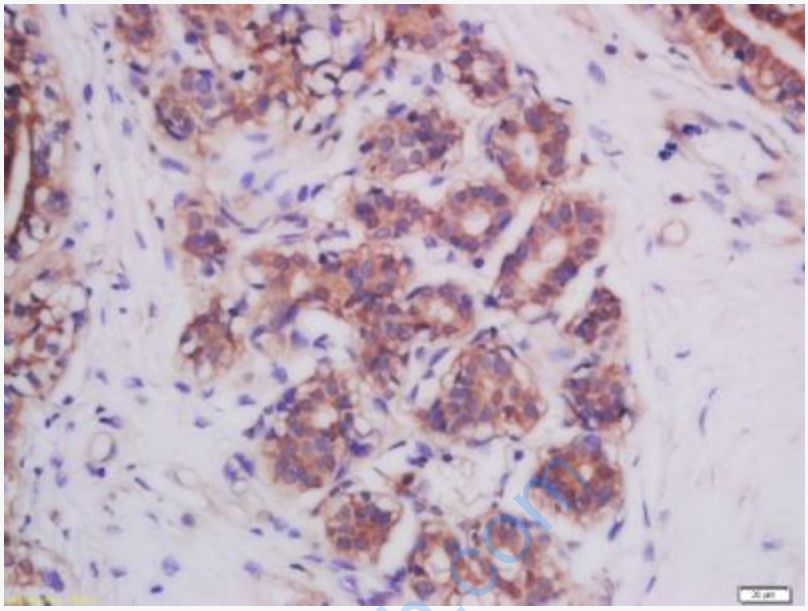
Entrez Gene: 170731 Mouse

Entrez Gene: 64476 Rat

Omim: 608507 Human

	SwissProt: O95140 Human SwissProt: Q80U63 Mouse SwissProt: Q8R500 Rat Unigene: 376681 Human Unigene: 154312 Mouse Unigene: 437499 Mouse Unigene: 8570 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-Mitofusin 2 (SL2988R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 83 kD

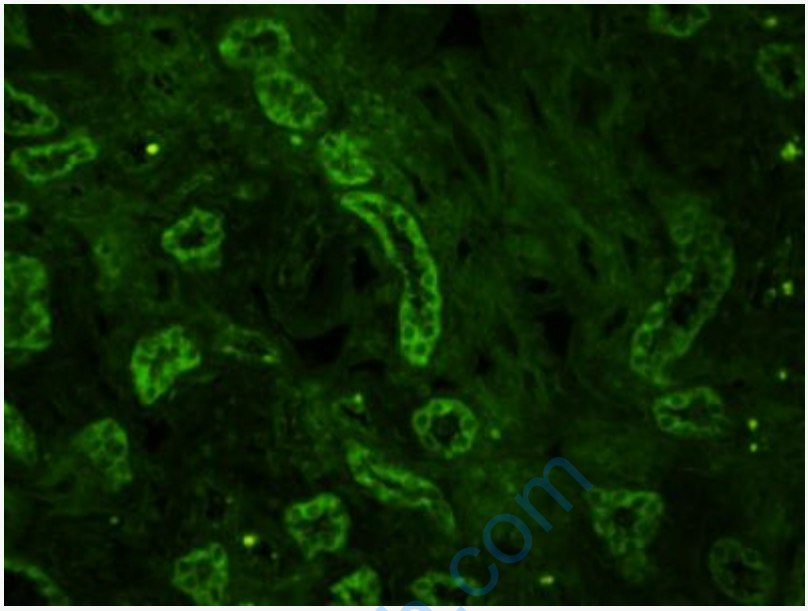
	Observed band size: 68 kD  Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Mitofusin 2) Polyclonal Antibody, Unconjugated (SL2988R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human breast cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Mitofusin 2 Polyclonal Antibody, Unconjugated(SL2988R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Mitofusin-2 Polyclonal Antibody, Unconjugated(SL2988R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, FITC conjugated(SL2988R)used at 1:200 dilution for 40 minutes at 37°C.