bs-23685R **[Primary Antibody]**

Mitofusin 2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9927 **SWISS:** O95140

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

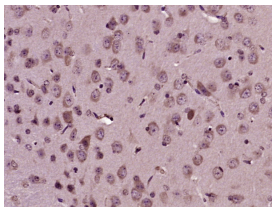
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

Predicted MW.: 83 kDa

Subcellular Location: Cell membrane ,Cytoplasm

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 (bs-23685R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=7.666]** Jia Wang. et al. A Role for PGC-1a in the Control of Abnormal Mitochondrial Dynamics in Alzheimer’s Disease. CELLS-BASEL. 2022 Jan;11(18):2849 WB,IHC ;Mouse. 36139423
- **[IF=8.3]** Jing Wang. et al. Effective compound combination of Bufei Yishen formula ameliorates PM2.5-induced COPD by inhibiting mitochondrial oxidative stress through SIRT3-mediated FOXO3 deacetylation. PHYTOMEDICINE. 2025 May;140:156568 WB ;Human,Rat. 40056638

- **[IF=6.792]** Yang Q et al. Hexavalent chromium induces mitochondrial dynamics disorder in rat liver by inhibiting AMPK/PGC-1α signaling pathway. Environ Pollut.2020 Oct;265(Pt A):114855. WB ;Rat. 32474337
- **[IF=6.304]** Zhecheng Wang. et al. circ-CBFB upregulates p66Shc to perturb mitochondrial dynamics in APAP-induced liver injury. Cell Death Dis. 2020 Nov;11(11):1-15 Other ;. 33159035
- **[IF=4.8]** Zhili Ding. et al. Allogeneic platelet lysate activates the SIRT1-PINK1/Parkin pathway: A promising approach for improving mitochondrial function in an in vitro model of intervertebral disc degeneration. INT IMMUNOPHARMACOL. 2025 Jan;144:113700 WB ;Rabbit. 39626535