bs-1824R **[Primary Antibody]**

Mitofilin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 10989 **SWISS:** Q16891

Target: Mitofilin

Immunogen: KLH conjugated synthetic peptide derived from human Mitofilin: 241-340/758.

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: Mitochondria are the center of cellular energy production and essential metabolic reactions. As double membrane-bound organelles, mitochondria from different species, tissues, and metabolic states are highly polymorphic in nature, yet exhibit common structural features. The ultrastructural variations in mitochondrial architecture occur mainly due to the differences in the amount and shape of cristae. Abundant cristae are found in mitochondria from tissues where energy demand is high. Analysis of the human heart mitochondrial proteome shows that mitofilin is one of the most abundant mitochondrial proteins. It appears to play an important role in the maintenance of cristae morphology. Mitofilin was originally described as heart muscle protein (HMP) because of its high expression in the heart.

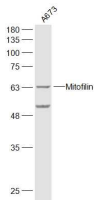
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Cow, Dog)

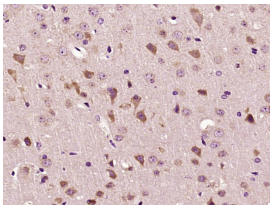
Predicted MW.: 84 kDa

Subcellular Location: Cell membrane ,Cytoplasm

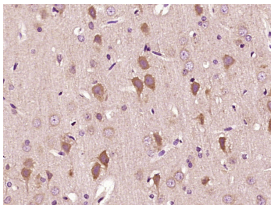
VALIDATION IMAGES



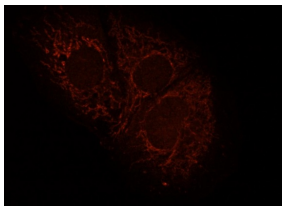
Sample: A673(Human) Cell Lysate at 30 ug Primary: Anti-Mitofilin (bs-1824R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD Observed band size: 68 kD



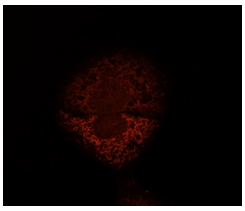
Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Mitofilin) Polyclonal Antibody, Unconjugated (bs-1824R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat 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 (Mitofilin) Polyclonal Antibody, Unconjugated (bs-1824R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Human HepG2 cells fixed with 3.7%



Human HepG2 cells fixed with 3.7%

Formaldehyde in medium, blocking performed with 10% NGS in 1x PBS buffer + 0.1% Tween20. Incubated with Anti-Mitofilin/IMMT Polyclonal Antibody (bs-1824R) at a 1:10 dilution for 1hr at RT, followed by Anti-Rabbit secondary, Cy3 conjugate at a 1:300 dilution incubated at RT for 1hr. This image was kindly provided by an end-user.

Formaldehyde in medium, blocking performed with 10% NGS in 1x PBS buffer + 0.1% Tween20. Incubated with Anti-Mitofilin/IMMT Polyclonal Antibody (bs-1824R) at a 1:10 dilution for 1hr at RT, followed by Anti-Rabbit secondary, Cy3 conjugate at a 1:300 dilution incubated at RT for 1hr. This image was kindly provided by an end-user.

SELECTED CITATIONS

- **[IF=7.1]** Lei Wang. et al.Adipose-derived stem cells attenuate rheumatoid arthritis by restoring CX3CR1+ synovial lining macrophage barrier.stem cell research & therapy.2025 Mar 5;16(1):111. IF ;Mouse. 40038808
- **[IF=2.752]** Yuliang Wen. et al. Changes in the Mitochondrial Dynamics and Functions Together with the mRNA/miRNA Network in the Heart Tissue Contribute to Hypoxia Adaptation in Tibetan Sheep. Animals-Basel. 2022 Jan;12(5):583 IHC ;Sheep. 35268153
- **[IF=2.323]** Guan Wang. et al. Effects of Aging on Expression of Mic60 and OPA1 and Mitochondrial Morphology in Myocardium of Tibetan Sheep. Animals-Basel. 2020 Nov;10(11):2160 IHC ;Sheep. 33233488