

Rabbit Anti-Mitofilin/AF350 Conjugated antibody

SL1824R-AF350

Product Name	Anti-Mitofilin/AF350
Chinese Name	AF350 标记的 Mitochondrion 内膜蛋白抗体
Alias	Cell proliferation inducing protein 52; Cell proliferation-inducing gene 4/52 protein; HMP; IMMT; IMMT_HUMAN; Inner membrane protein mitochondrial; Inner mitochondrial membrane; MINOS2; Mitochondrial inner membrane organizing system 2; Mitochondrial inner membrane protein; Mitofilin; Motor protein; p87; p87/89; p89; pig4; PIG52; Proliferation-inducing gene 4; MICOS complex subunit MIC60.
Research Area	Cardiovascular Signal transduction Mitochondrion
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Dog,Cow) IF=1:100-500,ICC/IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	68kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Mitofilin
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	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.

Subunit:

Interacts with OPA1, preferentially with the soluble OPA1 form. Component of the MINOS/MitOS complex, that includes IMMT, HSPA9 and CHCHD3 and associates with mitochondrial outer membrane proteins SAMM50, MTX1 and MTX2. Interacts with CHCHD6; the interaction is direct.

Subcellular Location:

Mitochondrion inner membrane.

Database links:

[Entrez Gene: 508853](#) Cow

[Entrez Gene: 10989](#) Human

[Entrez Gene: 76614](#) Mouse

[Entrez Gene: 312444](#) Rat

[Omim: 600378](#) Human

[SwissProt: Q16891](#) Human

[SwissProt: Q8CAQ8](#) Mouse

[SwissProt: Q3KR86](#) Rat

[Unigene: 148559](#) Human

[Unigene: 235123](#) Mouse

[Unigene: 47124](#) Rat

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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