SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Mitofilin/AF647 Conjugated antibody

Catalog Number: SL1824R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Mitofilin/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Mitofilin
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IF=1:100-500 ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Cow)
Background:	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

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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	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.