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Mitofilin Rabbit pAb

Catalog # AP98988

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q16891
Other Accession	Q16891
Reactivity	Rat, Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83678
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Mitofilin
Epitope Specificity	241-340/758
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	10989
Other Names	HMP; MICOS60; MINOS2; Mic60; P87; P87/89; P89; PIG4; PIG52; 1700082C19Rik; D830041H16Rik; MIC60_HUMAN; IMMT; Cell proliferation-inducing gene 4/52 protein; Mitochondrial inner membrane protein; Mitofilin; MIC60_MOUSE; MIC60_RAT; inner membrane mitochondrial protein; inner membrane protein, mitochondrial (mitofilin); mitochondrial inner membrane organizing system 2; heart muscle protein; mitochondrial contact site and cristae organizing system subunit 60

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	IMMT
Synonyms	HMP, MIC60, MINOS2
Function	Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane (PubMed:22114354, PubMed:25781180, PubMed:32567732, PubMed:33130824). Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:22114354, PubMed:25781180, PubMed:32567732, PubMed:33130824).
Cellular Location	Mitochondrion inner membrane; Single-pass membrane protein. Mitochondrion

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.