Mouse anti-Human Mitofilin Monoclonal Antibody | anti-IMMT antibody

Mitofilin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71657	**Mouse**	**Human**	**Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot**

PRODUCT SYNONYMS

Mitofilin; Monoclonal Antibody; Mitofilin Antibody; Mitofiin M027; anti-IMMT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M027
Specificity	Clone M027 detects a 90kDa* band corresponding to the molecular mass of mitofilin on SDS-PAGE immunoblots of native or denatured human PC3, MDA-MB-231, A431, A549, and MeWo cell lysates, as well as human breast, skin, and brain tissues. In addition, mass spectrometry analysis of immunoprecipitates usingmM0271 in human A431 cell lysates confirms this antibody only detects Mitofilin protein. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemistry, and immunoprecipitation.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-IMMT antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M027 was generated from a proprietary antigen related to human mitofilin expressed in the A431 epidermoid carcinoma cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES

ICC (Immunocytochemistry)
Immunocytochemical labeling of mitofilin in methanol-acetone (1:1) fixed human MeWo cells. The cells were labeled with mouse monoclonal anti-mitofilin (clone M027). The antibody was detected using goat anti-mouse DyLight 594.

WB (Western Blot)
Western blot analysis of human cell lysates: MeWo (lane 1), MDA-MB-231 (lane 2), PC3 (lane 3), and A549 (lane 4). The blot was probed with mouse monoclonal anti-mitofilin (MM0271) at 1:1000.

ADDITIONAL INFORMATION

Related Product Information for anti-IMMT antibody	Mitofilin is an important organizer of mitochondrial architecture. The mitofilin sequence encodes a polypeptide with a central alpha-helical region with predicted coiled coil domains flanked by globular amino and carboxy termini. There are four isoforms of mitofilin, and 90/91kDa mitofilin forms have been observed in western blots. Mitofilin is located in the inner mitochondrial membrane and interacts with several protein complexes of the outer membrane, thereby generating contact sites between the two membrane systems of mitochondria. These mitofilin-containing hetero-oligomeric protein complexes form the mitochondrial inner membrane organizing system (MINOS). MINOS integrity is required for the structural maintenance of the inner mitochondrial membrane. This mitochondrial region contains cristae membranes that form large tubular invaginations that protrude into the mitochondrial matrix. These cristae membranes contain the enzyme complexes of the oxidative phosphorylation machinery. MINOS deficiency causes loss of crista junction structures and the detachment of cristae from the inner boundary membrane.
References	Zerbes RM, et al. (2012) Biol Chem. 393(11):1247. Odgren PR, et al. (1996) J Cell Sci. 109(9):2253.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29427676
NCBI GeneID	10989
UniProt Accession #	Q16891; Q14539; Q15092; Q68D41; Q69HW5; Q6IBL0; Q7Z3X1; Q8TAJ5; Q9P0V2; B1H0U5; B2R5N6
Molecular Weight	758
NCBI Official Full Name	MICOS complex subunit MIC60
NCBI Official Synonym Full Names	inner membrane protein, mitochondrial
NCBI Official Symbol	IMMT
NCBI Official Synonym Symbols	HMP; P87; P89; PIG4; PIG52; MINOS2; P87/89
NCBI Protein Information	MICOS complex subunit MIC60; mitofilin; motor protein; proliferation-inducing gene 4; mitochondrial inner membrane protein; cell proliferation-inducing protein 52; cell proliferation-inducing gene 4/52 protein; mitochondrial inner membrane organizing syst
UniProt Protein Name	MICOS complex subunit MIC60
UniProt Gene Name	**IMMT**
UniProt Synonym Gene Names	HMP; MIC60; MINOS2
UniProt Entry Name	MIC60_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/mitofilin-antibody-clone-m027-immunoprecipitation-immunocytochemistry-western-blot-elisa/71657