

**Anti-Mitofilin Antibody**  
**Catalog # AN1840****Specification**

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**Anti-Mitofilin Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q16891</a>
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	83678

**Anti-Mitofilin Antibody - Additional Information**

Gene ID 10989

**Other Names**

MICOS complex subunit MIC60, Cell proliferation-inducing gene 4/52 protein, Mitochondrial inner membrane protein Mitofilin p87/89, IMMT, HMP, MIC60, MINOS2, PIG4, PIG52, MINOS

**Target/Specificity**

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 90/91 kDa 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.

**Dilution**

WB~~1:1000

IHC~~1:100~500

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Mitofilin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

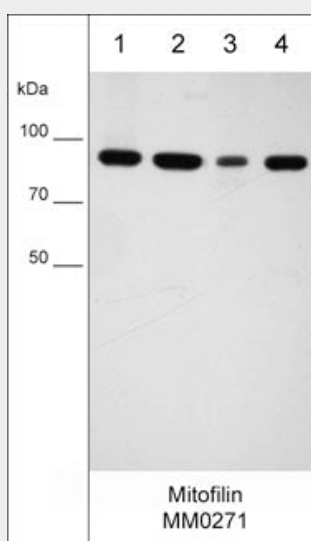
Blue Ice

## Anti-Mitofilin Antibody - Protocols

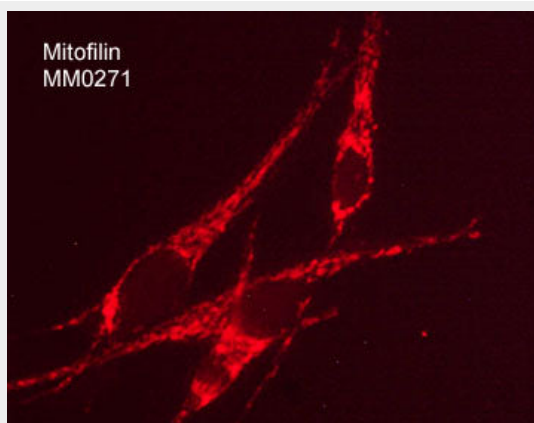
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Mitofilin Antibody - Images



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.



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.

## Anti-Mitofilin Antibody - Background

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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 90/91 kDa 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.