Mitofilin Polyclonal antibody

Catalog Number: **10179-1-AP**

*Featured Product*  |  *73 Publications*
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## Basic Information

**Catalog Number:** 10179-1-AP  
**Size:** 150μl, Concentration: 350 μg/ml by Nanodrop  
**Source:** Rabbit  
**Isotype:** IgG  
**Immunogen Catalog Number:** AG0102  
**GenBank Accession Number:** BC002412  
**GeneID (NCBI):** 10989  
**Full Name:** Inner membrane protein, mitochondrial (mitofilin)  
**Calculated MW:** 90 kDa  
**Observed MW:** 80-90 kDa  

**Purification Method:** Antigen affinity purification  
**Recommended Dilutions:**  
- WB: 1:5000-1:50000  
- IP: 0.5-4.0 ug for IP and 1:500-1:2000 for WB  
- IHC: 1:50-1:500  
- IF: 1:50-1:500

## Applications

**Tested Applications:** FC, IF, IHC, IP, WB, ELISA  
**Cited Applications:** CoIP, IF, IP, WB  
**Species Specificity:** human, mouse, rat  
**Cited Species:** human, rat, mouse, hamster  

**Note:** IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

## Background Information

IMMT (also known as mitofilin) is an inner mitochondrial membrane protein that is preferentially expressed in heart tissue and is commonly used as the marker for mitochondria. Mitofilin is known to be a critical organizer of mitochondrial cristae morphology and is indispensable for normal mitochondrial function. Three isoforms of mitofilin exist due to the alternative splicing. All three proteins of 87kD, 89kD and 80kD can be detected in immunoblot analysis with this antibody.

## Notable Publications

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<td>34571250</td>
<td>Mitochondrion</td>
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<td>Steven J Edwards</td>
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<td>Brendan Miller</td>
<td>36127429</td>
<td>Mol Psychiatry</td>
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## Storage

**Storage:** Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3  
**Aliquoting is unnecessary for -20°C storage**

*** 20ul sizes contain 0.1% BSA ***

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For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com  

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 10179-1-AP (Mitofilin antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Mitofilin antibody (10179-1-AP) at dilution of 1:200 and CoraLight®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).

1X10^6 HEK-293T cells were stained with .2ug Mitofilin antibody (10179-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10179-1-AP (Mitofilin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).