

# MFN1 Monoclonal antibody

Catalog Number: 66776-1-Ig 11 Publications

## Basic Information

<b>Catalog Number:</b> 66776-1-Ig	<b>GenBank Accession Number:</b> BC040557	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1900 µg/ml	<b>GeneID (NCBI):</b> 55669	<b>CloneNo.:</b> 3F11C11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8IWA4	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:500-1:2000 IF 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> mitofusin 1	
<b>Immunogen Catalog Number:</b> AG4890	<b>Calculated MW:</b> 741 aa, 84 kDa <b>Observed MW:</b> 84 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, IHC	<b>WB :</b> HepG2 cells, PC-3 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, U-251 cells, U-87 MG cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> human prostate cancer tissue, human colon cancer tissue
<b>Cited Species:</b> human, rat, mouse, pig	<b>IF :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Mitofusin-1 (MFN1) is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). Mitofusins are large predicted GTPases located in outer mitochondrial membrane. They are essential for outer membrane fusion by interacting with each other to facilitate mitochondrial targeting. The mitofusins are the first known protein mediator of mitochondrial fusion, and mediate developmentally regulated post-meiotic fusion of mitochondria. Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy (PMID: 20871098).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiling Feng	34065886	Molecules	WB
Gee Euhn Choi	33473105	Nat Commun	IF
Fan Wang	35951252	J Mol Histol	IHC

## 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

For technical support and original validation data for this product please contact:

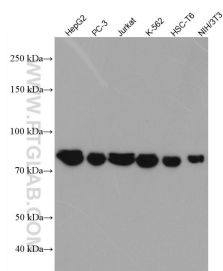
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

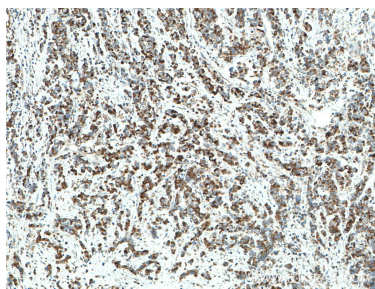
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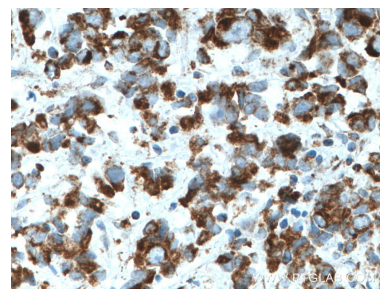
## Selected Validation Data



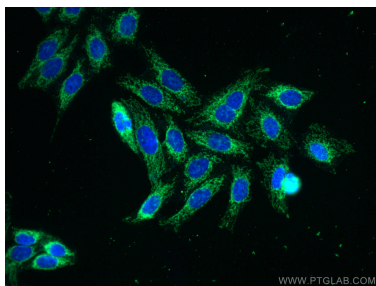
Various lysates were subjected to SDS PAGE followed by western blot with 66776-1-Ig (MFN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66776-1-Ig (MFN1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66776-1-Ig (MFN1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MFN1 antibody (66776-1-Ig, Clone: 3F11C11 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).