

# MFN1 Monoclonal antibody, PBS Only

Catalog Number: 66776-1-PBS

## Basic Information

**Catalog Number:**

66776-1-PBS

**Size:**

1 mg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG4890

**GenBank Accession Number:**

BC040557

**GeneID (NCBI):**

55669

**UNIPROT ID:**

Q8IWA4

**Full Name:**

mitofusin 1

**Calculated MW:**

741 aa, 84 kDa

**Observed MW:**

84 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3F11C11

## Applications

**Tested Applications:**

WB, IHC, IF, ELISA

**Species Specificity:**

Human, mouse, rat

## 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).

## Storage

**Storage:**

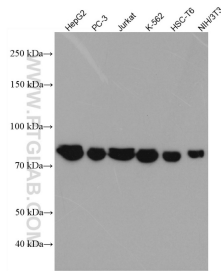
Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

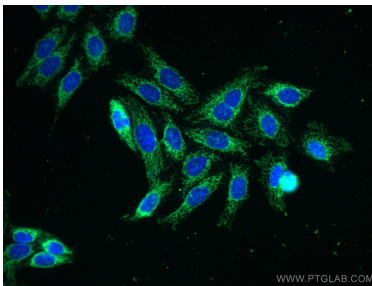
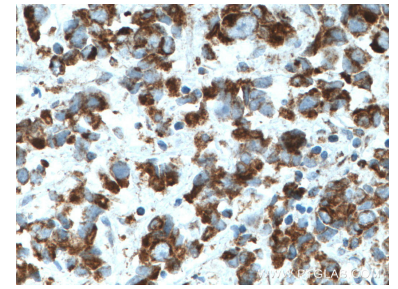
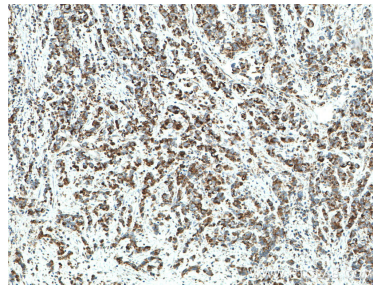
**Storage Buffer:**

PBS only

## 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. This data was developed using the same antibody clone with 66776-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66776-1-PBS in a different storage buffer formulation.