

Nur für Forschungszwecke

# MFN2 Monoklonaler Antikörper

Katalog-Nr.:67487-1-Ig

Vorgestelltes Produkt

10 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 67487-1-Ig	<b>GenBank-Zugangsnummer:</b> BC017061	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 150ul, Konzentration: 1900 µg/ml von9927 Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> mitofusin 2	<b>CloneNo.:</b> 5F3B3
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> mitofusin 2	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:400-1:1600
<b>Isotyp:</b> IgG2a	<b>Berechnete Masse:</b> 757 aa, 86 kDa	
<b>Immunogen Katalognummer:</b> AG29873	<b>Beobachtete Masse:</b> 86 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IF, IHC, WB, ELISA	<b>Positivkontrollen:</b> WB : HEK-293-Zellen, HeLa-Zellen, HepG2-Zellen, Jurkat-Zellen, K-562-Zellen, LNCaP-Zellen
<b>In Publikationen genannte Anwendungen:</b> IHC, WB	<b>IHC :</b> humanes Herzgewebe,
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	<b>IF :</b> HepG2-Zellen,
<b>Zitierte Arten:</b> Fisch, Human, Maus, Ratte	
<b>Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.</b>	

## Hintergrundinformationen

MFN2, also named as CPRP1 and KIAA0214, belongs to the mitofusin family. It is an Essential transmembrane GTPase, which mediates mitochondrial fusion. MFN2 acts independently of the cytoskeleton. It therefore plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Overexpression of MFN2 induces the formation of mitochondrial networks. It plays an important role in the regulation of vascular smooth muscle cell proliferation. Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 2A2 (CMT2A2). Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 6 (CMT6). Ubiquitinated forms of Mfn2 (mono- and polyubiquitinated) are present during mitophagy.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Yujie Zhong	36501024	Nutrients	WB,IHC
Zhanglin Chen	34749643	J Physiol Sci	WB
Jiling Feng	34065886	Molecules	WB

## Lagerung

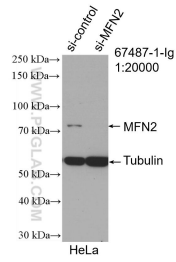
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

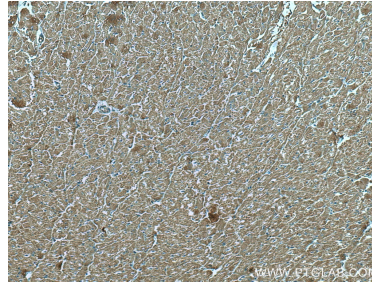
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

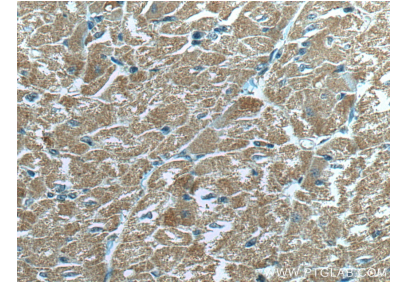
## Ausgewählte Validierungsdaten



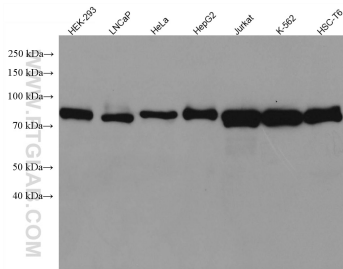
WB result of MFN2 antibody (67487-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MFN2 transfected HeLa cells.



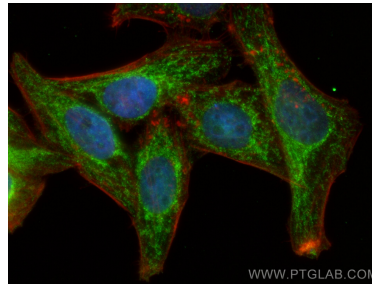
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 67487-1-Ig (MFN2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 67487-1-Ig (MFN2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67487-1-Ig (MFN2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MFN2 antibody (67487-1-Ig, Clone: 5F3B3) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).