



# **MFN2** Recombinant Polyclonal Antibody

<b>Product Details</b>		
Size	100 μg	
Species Reactivity	Human	
Published Species	Rat	
Host/Isotype	Rabbit / IgG	
Expression system	Expi293	
Class	Recombinant Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	Peptides corresponding to human MFN2 [1) aa391-aa410 2) aa742-aa757]	
Form	Liquid	
Concentration	0.5 mg/mL	
Purification	Protein A	
Storage buffer	PBS, pH 7.4	
Contains	0.09% sodium azide	
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	
RRID	AB_2724683	

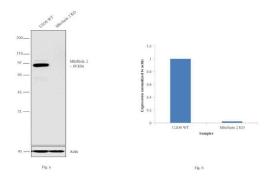
Applications	Tested Dilution	Publications
Western Blot (WB)	1:400	-
Immunocytochemistry (ICC/IF)	5 μg/mL	1 Publication

## **Product Specific Information**

This antibody is predicted to react with Monkey, Dog, Cat, Bovine.

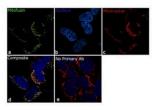
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

## **Product Images For MFN2 Recombinant Polyclonal Antibody**



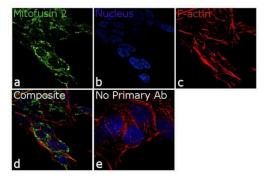
#### MFN2 Antibody (711803)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of the target protein. A loss of signal was observed for the target protein in MFN2 knockout (KO) cell line compared to the control cell line using Anti-MFN2 Recombinant Rabbit Polyclonal Antibody (Product # 711803). {KO}



## MFN2 Antibody (711803) in ICC/IF

For immunofluorescence analysis, SH-SY5Y cells were fixed and permeabilized for detection of endogenous Mitofusin 2 using Mitofusin 2 Recombinant Rabbit Polyclonal Antibody (Product # 711803, 5 μg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Mitofusin 2 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents mitochondrial staining using MitoTracker® Red CMXRos (Product # M7512). Panel d) is a composite image of Panels a, b and c clearly demonstrating co-localization of Mitofusin 2 with mitotracker which specifically binds to the mitochondria. Panel e) represents control cells without primary antibody to assess background. The images were captured at 60X magnification.



#### MFN2 Antibody (711803) in ICC/IF

For immunofluorescence analysis, SH-SY5Y cells were fixed and permeabilized for detection of endogenous Mitofusin 2 using Anti- Mitofusin 2 Recombinant Rabbit Polyclonal Antibody (Product # 711803, 5 μg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Mitofusin 2 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating mitochondrial localization of Mitofusin 2. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.cn

## **□1** Reference

# Immunocytochemistry (1)

#### Stroke

# Eye Opener in Stroke.

"711803 was used in Immunocytochemistry to conclude that retinal ischemia is closely associated with mitochondrial dysfunction, which can be remedied by stem cell-mediated mitochondrial repair."

Authors: Nguyen H,Lee JY,Sanberg PR,Napoli E,Borlongan CV

**Year** 2019

Species Rat

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