

# MFN2 Recombinant Polyclonal Antibody

## Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	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

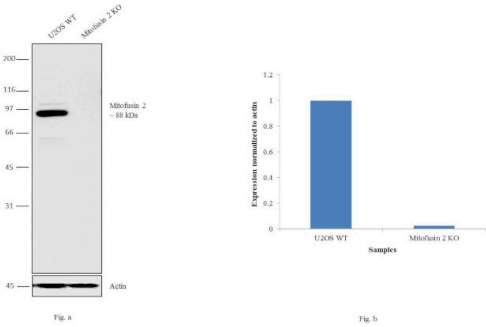
This antibody is predicted to react with Monkey, Dog, Cat, Bovine.

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

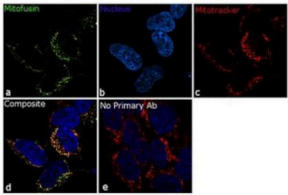
MFN2 Antibody (711803)

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}



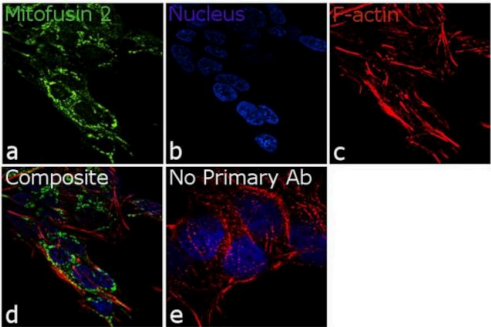
MFN2 Antibody (711803) in ICC/IF

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](https://thermofisher.cn)

Immunocytochemistry (1)

<p>Stroke</p> <p><b>Eye Opener in Stroke.</b></p> <p>"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."</p> <p>Authors: Nguyen H,Lee JY,Sanberg PR,Napoli E,Borlongan CV</p>	<p>Year</p> <p>2019</p> <p>Species</p> <p>Rat</p>
--	---

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.