


## Product datasheet

# Anti-Mitofusin 2 antibody ab50843

★★★★☆ [5 Abreviews](#) [14 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-Mitofusin 2 antibody
<b>Description</b>	Rabbit polyclonal to Mitofusin 2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat <b>Predicted to work with:</b> Cynomolgus monkey, Orangutan 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Mitofusin 2 aa 557-576 conjugated to Keyhole Limpet Haemocyanin (KLH). Sequence: C-LGPKNSRRALMGYNDQVQRP

 [Run BLAST with](#)

 [Run BLAST with](#)

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab50843 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (3)	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 86 kDa (predicted molecular weight: 84 kDa).

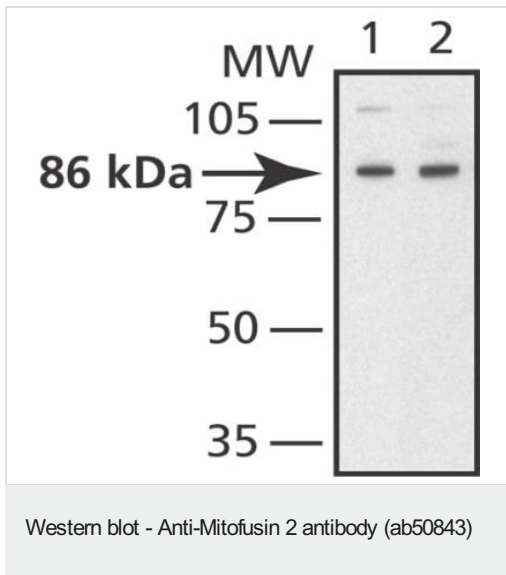
## Target

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<b>Function</b>	Essential transmembrane GTPase, which mediates mitochondrial fusion. Fusion of mitochondria occurs in many cell types and constitutes an important step in mitochondria morphology, which is balanced between fusion and fission. 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 induces the formation of mitochondrial networks. Plays an important role in the regulation of vascular smooth muscle cell proliferation. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PARK2 recruitment to dysfunctional mitochondria. Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress. Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions.
<b>Tissue specificity</b>	Ubiquitous; expressed at low level. Highly expressed in heart and kidney.
<b>Involvement in disease</b>	Charcot-Marie-Tooth disease 2A2 Neuropathy, hereditary motor and sensory, 6A
<b>Sequence similarities</b>	Belongs to the TRAFAC class dynamin-like GTPase superfamily. Dynamin/Fzo/YdjA family. Mitofusin subfamily. Contains 1 dynamin-type G (guanine nucleotide-binding) domain.
<b>Post-translational modifications</b>	Phosphorylated by PINK1. Ubiquitinated by non-degradative ubiquitin by PARK2, promoting mitochondrial fusion; deubiquitination by USP30 inhibits mitochondrial fusion.
<b>Cellular localization</b>	Mitochondrion outer membrane. Colocalizes with BAX during apoptosis.

## Images

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**All lanes :** Anti-Mitofusin 2 antibody (ab50843) at 0.25 µg/ml

**Lane 1 :** Rat brain mitochondria

**Lane 2 :** Mouse brain mitochondria

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG, Peroxidase conjugate and a chemiluminescent substrate.

**Predicted band size:** 84 kDa

**Observed band size:** 86 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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