

# Anti-Mitofusin 2 antibody [N153/5] ab186317

## 2 图像

### 概述

产品名称	Anti-Mitofusin 2抗体[N153/5]
描述	小鼠单克隆抗体[N153/5] to Mitofusin 2
宿主	Mouse
特异性	ab186317 does not cross react with Mitofusin 1.
经测试应用	适用于: WB, ICC/IF
种属反应性	与反应: Rat, Human
免疫原	<p>Recombinant fragment within Mouse Mitofusin 2 aa 350-600. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements.</p> <p>Database link: <a href="#">Q80U63</a></p> <p> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a></p>
阳性对照	WB: Rat brain membrane lysate; Mouse cardiac mitochondrial lysate.
常规说明	<p>The clone number has been updated from S153-5 to N153/5, both clone numbers name the same antibody clone.</p> <p>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.</p> <p>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&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.1% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS
纯度	Protein G purified

克隆	单克隆
克隆编号	N153/5
同种型	IgG2a

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab186317于以下的经测试应用

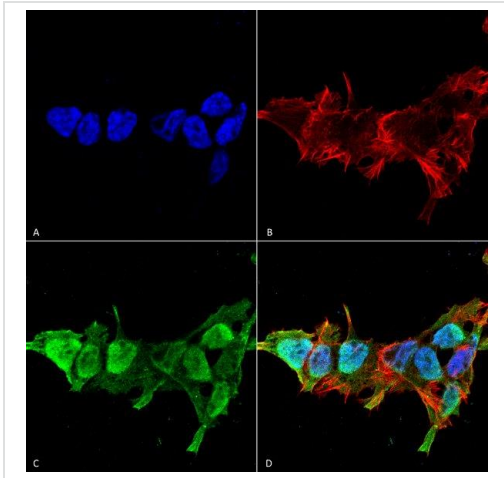
“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Predicted molecular weight: 86 kDa.
ICC/IF		Use at an assay dependent concentration.

## 靶标

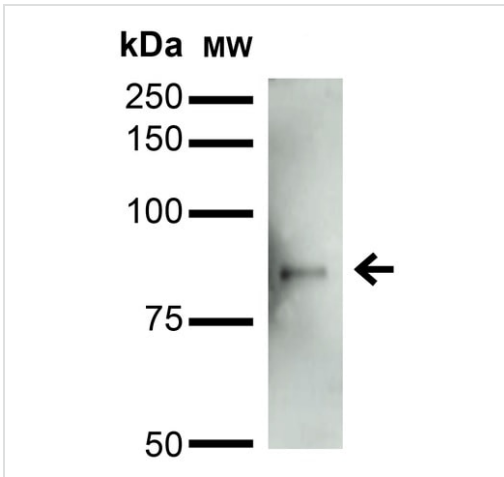
<b>功能</b>	Essential transmembrane GTPase, which mediates mitochondrial fusion. Fusion of mitochondria occurs in many cell types and constitutes an important step in mitochondria morphology, which is balanced between fusion and fission. MFN2 acts independently of the cytoskeleton. It therefore plays a 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>组织特异性</b>	Ubiquitous; expressed at low level. Highly expressed in heart and kidney.
<b>疾病相关</b>	Charcot-Marie-Tooth disease 2A2 Neuropathy, hereditary motor and sensory, 6A
<b>序列相似性</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>翻译后修饰</b>	Phosphorylated by PINK1. Ubiquitinated by non-degradative ubiquitin by PARK2, promoting mitochondrial fusion; deubiquitination by USP30 inhibits mitochondrial fusion.
<b>细胞定位</b>	Mitochondrion outer membrane. Colocalizes with BAX during apoptosis.

## 图片



Immunocytochemistry/ Immunofluorescence - Anti-Mitofusin 2 antibody [N153/5] (ab186317)

ab186317 staining Mitofusin 2 in the Human Neuroblastoma cell line (C) by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% formaldehyde for 15 minutes at room temperature. Samples were incubated with primary antibody (1/100) for 1 hour at room temperature. An ATTO 488-conjugated Goat anti-mouse polyclonal was used as the secondary antibody (1/100). Nucleus stained blue with DAPI (A), F-Actin stained red with Phalloidin Texas Red (B) and merged images (D)



Western blot - Anti-Mitofusin 2 antibody [N153/5] (ab186317)

Anti-Mitofusin 2 antibody [N153/5] (ab186317) at 1/200 dilution + Rat brain membrane lysate at 15  $\mu$ g

**Predicted band size: 86 kDa**

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

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