


## Product datasheet

### HRP Anti-Mitofusin 1 antibody [11E91H12] ab198410

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#### Overview

<b>Product name</b>	HRP Anti-Mitofusin 1 antibody [11E91H12]
<b>Description</b>	HRP Mouse monoclonal [11E91H12] to Mitofusin 1
<b>Host species</b>	Mouse
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Recombinant fragment corresponding to Mouse Mitofusin 1.
<b>Positive control</b>	WB: NIH 3T3 whole cell lysate.
<b>General notes</b>	<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>

#### Properties

<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Avoid freeze / thaw cycle. Store In the Dark.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.1% Proclin 300 Solution</p> <p>Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)</p>
<b>Purity</b>	Ammonium Sulphate Precipitation
<b>Purification notes</b>	Produced in vitro using hybridomas grown in serum-free medium, and then concentrated by ammonium sulfate precipitation. Near homogeneity as judged by SDS-PAGE.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	11E91H12
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab198410 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		1/5000. Detects a band of approximately 84 kDa (predicted molecular weight: 84 kDa).

## Target

### Function

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. MFN1 acts independently of the cytoskeleton. Overexpression induces the formation of mitochondrial networks.

### Tissue specificity

Ubiquitous. Expressed at slightly higher level in kidney and heart. Isoform 2 may be overexpressed in some tumors, such as lung cancers.

### Sequence similarities

Belongs to the mitofusin family.

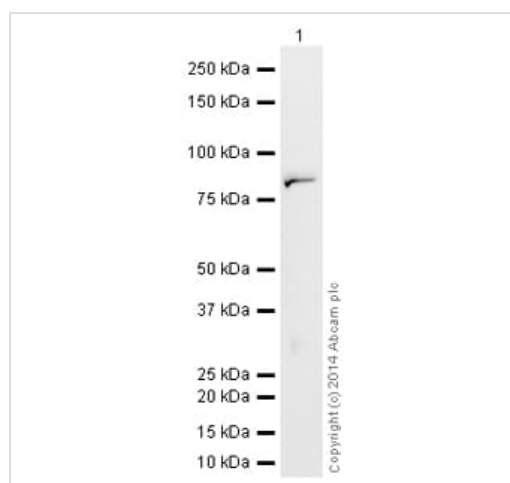
### Post-translational modifications

Ubiquitinated by MARCH5.

### Cellular localization

Cytoplasm and Mitochondrion outer membrane.

## Images



Western blot - HRP Anti-Mitofusin 1 antibody  
[11E91H12] (ab198410)

HRP Anti-Mitofusin 1 antibody [11E91H12] (ab198410) at 1/5000 dilution + NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 40 µg

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 84 kDa

**Observed band size:** 84 kDa

**Exposure time:** 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes.

The membrane was then blocked for an hour using 3% milk before being incubated with ab198410 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **<https://www.abcam.com/abpromise>** or contact our technical team.

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