

## Purified anti-Mitofusin-1 Antibody (Previously Covance catalog# MMS-5021)

<b>Catalog# / Size</b>	814602 / 25 µL 814601 / 100 µL
<b>Clone</b>	1G3.B6
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Mitofusin-1, transmembrane GTPase MFN1, hfzo1, hfzo2, fzo homolog, mitochondrial transmembrane GTPase FZO-2, mitochondrial transmembrane GTPase Fzo-1, transmembrane GTPase MFN1, mitofusin 1
<b>Previously</b>	Covance Catalog# MMS-5021
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	Mitofusin-1 is a transmembrane GTPase protein involved in mitochondrial fusion, also known as hfzo1 or MFN1. Mitochondrial fusion and fission occurs in many cells and is important to mitochondrial morphology and function.

### Product Details

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<b>Reactivity</b>	Human, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	This monoclonal antibody was raised against a peptide sequence corresponding to amino acids 547-558 of the human mitofusin 1 protein.
<b>Formulation</b>	Phosphate-buffered solution.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
<b>Application</b>	<a href="#">IHC-P - Quality tested</a> <a href="#">WB - Verified</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 10 - 20 µg/ml is suggested. For Western blotting, the suggested use of this reagent is 1 - 10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	This antibody is effective in immunoblotting (WB) and immunohistochemistry (IHC-P).
<b>RRID</b>	AB_2801145 (BioLegend Cat. No. 814602) AB_2564785 (BioLegend Cat. No. 814601)

### Antigen Details

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<b>Structure</b>	Expected MW: 86 kD
<b>Biology Area</b>	Cell Biology, Mitochondrial Function, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	Mitochondrial Markers
<b>Gene ID</b>	<a href="#">55669</a>

## Related Protocols

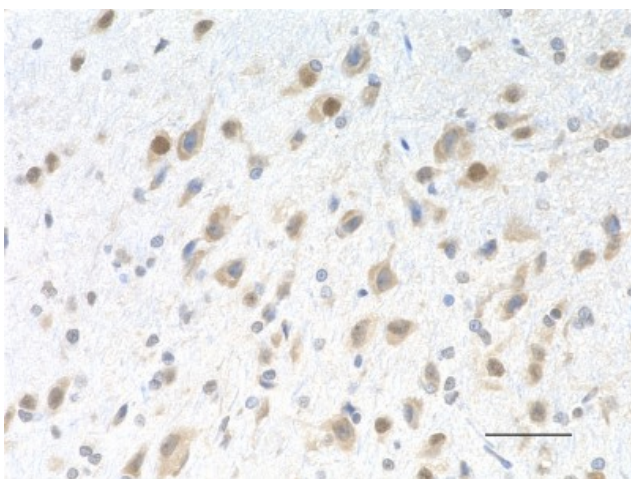
[Western Blotting Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

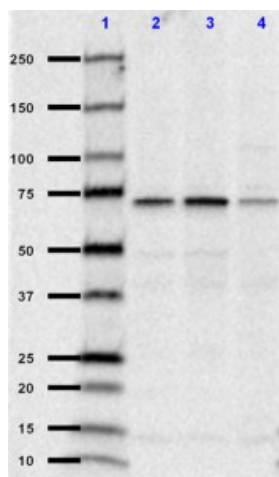
## Other Formats

Purified anti-Mitofusin-1

## Product Data



IHC staining of purified anti-Mitofusin-1 antibody (clone 1G3.B6) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R. (Cat. No. 928502), the tissue was incubated with 20  $\mu\text{g}/\text{ml}$  of the primary antibody for 60 minutes at room temperature. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50  $\mu\text{m}$



Western blot of purified anti-Mitofusin-1 antibody (clone 1G3.B6). Lane 1: Molecular weight marker; Lane 2: 15  $\mu\text{g}$  of human brain lysate; Lane 3: 15  $\mu\text{g}$  of Alzheimer's disease human brain lysate; Lane 4: 20  $\mu\text{g}$  of rat brain lysate. The blot was incubated with 1  $\mu\text{g}/\text{mL}$  of the primary antibody overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.

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