

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

Catalog# / Size	814602 / 25 µL 814601 / 100 µL
Clone	1G3.B6
Regulatory Status	RUO
Other Names	Mitofusin-1, transmembrane GTPase MFN1, hfzo1, hfzo2, fzo homolog, mitochondrial transmembrane GTPase FZO-2, mitochondrial transmembrane GTPase Fzo-1, transmembrane GTPase MFN1, mitofusin 1
Previously	Covance Catalog# MMS-5021
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a peptide sequence corresponding to amino acids 547-558 of the human mitofusin 1 protein.
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	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.
Application	IHC-P - Quality tested WB - Verified
Recommended Usage	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.
Application Notes	This antibody is effective in immunoblotting (WB) and immunohistochemistry (IHC-P).
RRID	AB_2801145 (BioLegend Cat. No. 814602) AB_2564785 (BioLegend Cat. No. 814601)

Antigen Details

Structure	Expected MW: 86 kD
Biology Area	Cell Biology, Mitochondrial Function, Neuroscience, Neuroscience Cell Markers
Molecular Family	Mitochondrial Markers
Gene ID	55669

Related Protocols

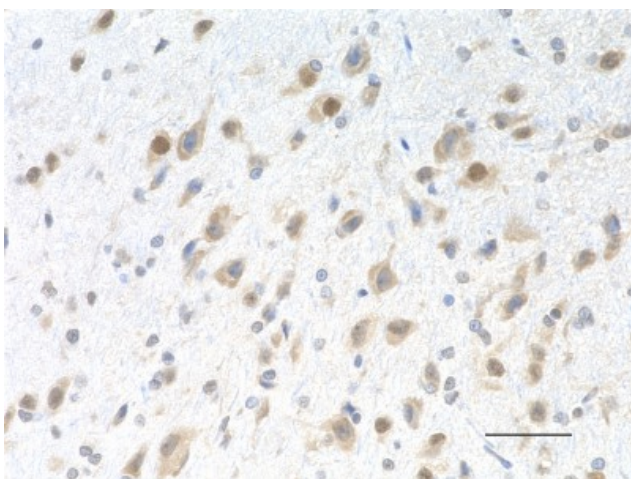
[Western Blotting Protocol](#)

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

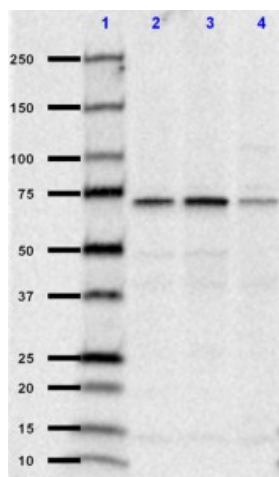
Other Formats

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 μm



Western blot of purified anti-Mitofusin-1 antibody (clone 1G3.B6). Lane 1: Molecular weight marker; Lane 2: 15 μg of human brain lysate; Lane 3: 15 μg of Alzheimer's disease human brain lysate; Lane 4: 20 μg 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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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587