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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Mitofusin-1 MFN1 Antibody

Catalog Number: A02172

About MFN1

Mitofusin 1 (MFN1) and the related protein MFN2 are mitochondrial membrane GTPase proteins that play a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes (1,2). MFN1 and MFN2 form homotypic and heterotypic complexes and coordinately regulate mitochondrial fusion and are essential for embryonic development (3). When ectopically expressed, MFN1 inhibits the apoptosis-associated amino-terminal conformation change in the apoptotic protein Bax but not its mitochondrial translocation, indicating that MFN1 is involved in the regulating the activation of Bax on the outer mitochondrial membrane (4).

Overview

Product Name	Anti-Mitofusin-1 MFN1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Mitofusin-1 MFN1 Antibody (Catalog # A02172). Tested in ELISA, WB, ICC applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, ICC, WB
Clonality	Polyclonal Clone: SK7
Formulation	MFN1 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	MFN1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q8IWA4

Technical Details

Immunogen	MFN1 antibody was raised against a 17 amino acid peptide near the amino terminus of human MFN1. The immunogen is located within amino acids 20 - 70 of MFN1.
Predicted Reactive Species	Bovine, Mouse, Rat
Cross Reactivity	MFN1 antibody is human, mouse and rat reactive. MFN1 antibody is predicted to not cross-react with MFN2.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	MFN1 antibody is affinity chromatography purified via peptide column.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: MFN1 antibody can be used for detection of MFN1 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunocytochemistry at 5 ug/mL. Antibody validated: Western Blot in human samples and Immunocytochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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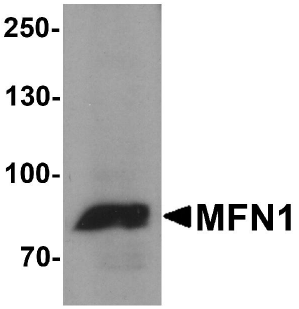
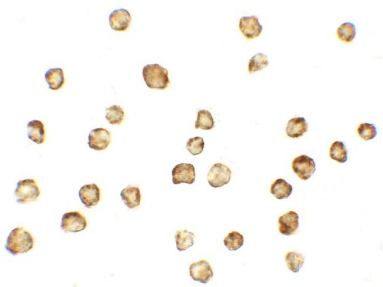
Anti-Mitofusin-1 MFN1 Antibody (A02172) Images



Western blot analysis of MFN1 in A431 cell lysate with MFN1 antibody at 1 ug/ml.



Immunocytochemistry of MFN1 in A431 cells with MFN1 antibody at 5 ug/mL.

1 Publications Citing This Product

1. PubMed ID: 32884840, Jiao Z,Wu Y,Qu S.Fenpropathrin induces degeneration of dopaminergic neurons via disruption of the mitochondrial quality control system.Cell Death Discov.2020 Aug 25;6:78.doi:10.1038/s41420-020-00313-y.PMID:32884840;PMCID:PMC7447795.

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