

DATASHEET

MFN1 Rabbit Polyclonal Antibody

CAT. NO. APA14931

KEY FEATURES

Target	MFN1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion . Membrane clustering requires GTPase activity . It may involve a major rearrangement of the coiled coil domains . Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events . Overexpression induces the formation of mitochondrial networks (in vitro) . Has low GTPase activity .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to MFN1
Specificity	Recognizes endogenous levels of MFN1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human MFN1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 41; Observed: 84 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Mitofusin-1; Fzo homolog; Transmembrane GTPase MFN1
Gene Symbol	MFN1
Entrez Gene	55669(Human); 67414(Mouse); 192647(Rat)
SwissProt	Q8IWA4(Human); Q811U4(Mouse); Q8R4Z9(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

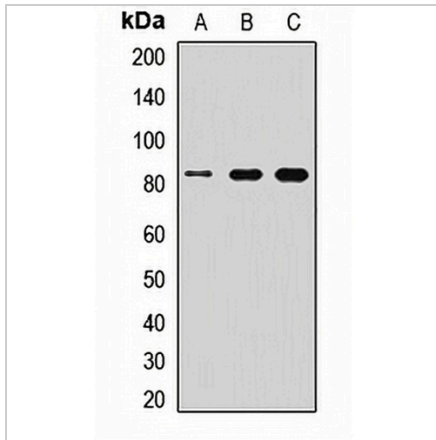
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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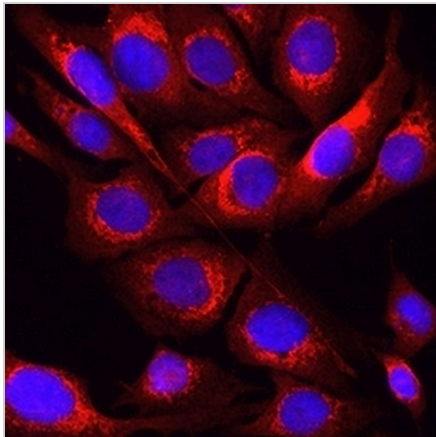
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DATA



Western blot analysis of MFN1 expression in A549 (A), mouse liver (B), rat brain (C) whole cell lysates. (Predicted band size: 41; 71; 84 kD; Observed band size: 84 kD)



Immunofluorescent analysis of MFN1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.