Datasheet for ABIN6143797

anti-MFN1 antibody (AA 622-741)

3 Images

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Overview

Quantity:	100 µL
Target:	MFN1
Binding Specificity:	AA 622-741
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MFN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 622-741 of human MFN1 (NP_284941.2).
Sequence:	YGALYLYERL SWTTHAKERA FKQQFVNYAT EKLRMIVSST SANCSHQVKQ QIATTFARLC QQVDITQKQL EEEIARLPKE IDQLEKIQNN SKLLRNKAVQ LENELENFTK QFLPSSNEES
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	MFN1

Target Details

Alternative Name:	MFN1 (MFN1 Products)
Background:	The protein encoded by this gene is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane proteins that interact with each other to facilitate mitochondrial targeting.,MFN1,hfzo1,hfzo2,Signal Transduction,Cell Biology & Developmental Biology,Autophagy,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Mitophagy fission and fusion,Neuroscience,Neurodegenerative Diseases,Dopamine Signaling in Parkinson's Disease,Mitochondrial Control of Autophagy,MFN1
Molecular Weight:	41 kDa/71 kDa/84 kDa
Gene ID:	55669
UniProt:	Q8IWA4

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

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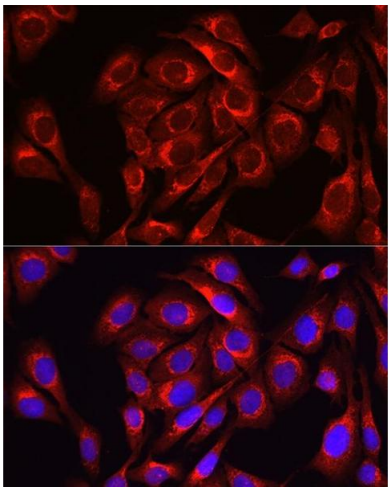
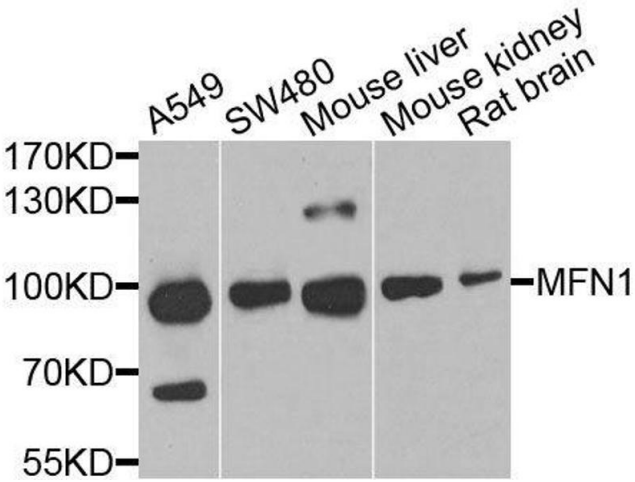


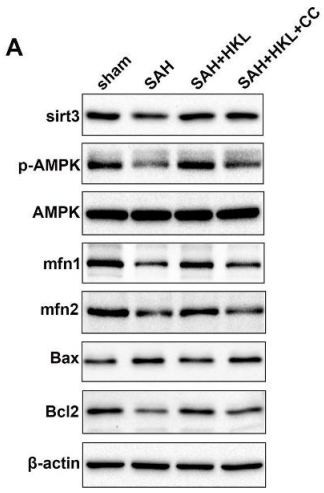
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using Mitofusin-1/MFN1 Rabbit pAb (ABIN6128299, ABIN6143797, ABIN6143798 and ABIN6225221) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using MFN1 antibody.



Western Blotting

Image 3. SIRT3 protected mitochondrial fusion proteins Mfn1 and Mfn2 after SAH in an AMPK-dependent manner. (a selective inhibitor of AMPK). a Western blotting analysis of SIRT3, p-AMPK, AMPK, Mfn1, Mfn2, Bcl2, Bax in each group. b The bar graph shows the statistical results of protein level. CC: Compound C. Values were represented as mean±SD, n=8 for each group. *P<0.05 and **P<0.01 vs. sham group, #P<0.05 and ##P<0.01 vs. SAH group. &P<0.05 vs. SAH+HKL group - figure provided by CiteAb. Source: PMID32922930

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