

Basic Information

Product Name	Anti-MFN1 Antibody
Gene Name	MFN1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminal of human Mitofusin 1 different from the related mouse and rat sequences by one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	84 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

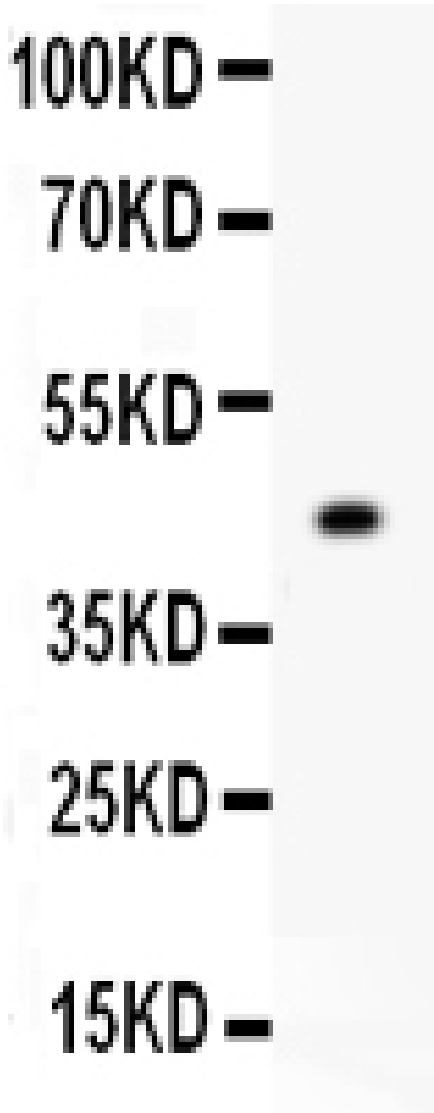
Background Information

Mitofusin-1 is a protein that in humans is encoded by the MFN1 gene. It is an 80?90 kDa mitochondrial member of the dynamin family of molecules. It is ubiquitously expressed, and found in the outer mitochondrial membrane. The protein encoded by this gene is a mediator of mitochondrial fusion, and thereby contribute to the dynamic balance between fusion and fission that determines mitochondria morphology. MFN1 is known to form oligomers, either with itself or MFN?2, and to undergo ubiquitination by MARCH5. MFN?1 has two key domains. One is a coiled?coil region that mediates MFN?1: MFN?1/2 binding, and a second is a GTPase domain whose cleavage of GTP is necessary for membrane fusion. Overexpression of MFN1 caused perinuclear mitochondrial clustering.

Reference

Anti-MFN1 Antibody被引用在9文献中。

Selected Validation Data



Western blot analysis of MFN1 using anti-MFN1 antibody (PB0263).

Lane 1: recombinant human Mitofusin 1 protein 0.5ng.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MFN1 antigen affinity purified polyclonal antibody (PB0263) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MFN1 at approximately 84 kDa.