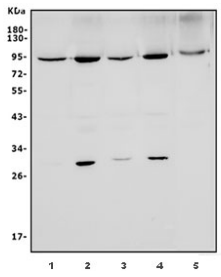
MFN1 Antibody / Mitofusin-1 (R31677)

Catalog No.	Formulation	Size
R31677	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	55669
Applications	Western blot: 0.5-1ug/ml
Limitations	This MFN1 antibody is available for research use only.



Western blot testing of 1) rat kidney, 2) rat heart, 3) mouse kidney, 4) mouse heart and 5) human pancreas lysate with MFN1 antibody. Predicted molecular weight ~84 kDa.

Description

Mitofusin-1 is a protein that in humans is encoded by the MFN1 gene. It is a 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 MFNÃ¯Â¿Â½2, and to undergo ubiquitination by MARCH5. It has two key domains; One is a coiledÃ¯Â¿Â½coil region that mediates MFNÃ¯Â¿Â½1/2 binding, and a second is a GTPase domain whose cleavage of GTP is necessary for membrane fusion. Overexpression causes perinuclear mitochondrial clustering.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MFN1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminal of human Mitofusin 1 (DQLLEFVTEGSHFVEATYKNPELDRIA) was used as the immunogen for this MFN1 antibody.

Storage

After reconstitution, the MFN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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