Mitofusin 1 Rabbit mAb

Catalog No: #49315

Package Size: #49315-1 50ul #49315-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

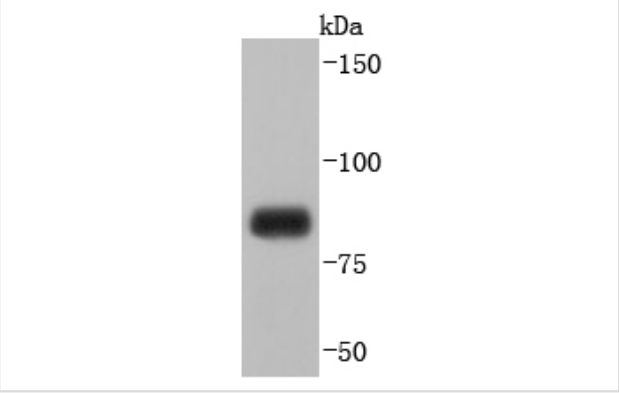
Description

Product Name	Mitofusin 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF0954
Purification	ProA affinity purified
Applications	WB, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	Fzo homolog antibody Hfzo1 antibody Hfzo2 antibody MFN 1 antibody Mfn1 antibody MFN1_HUMAN antibody Mitochondrial transmembrane GTPase Fzo 1 antibody Mitochondrial transmembrane GTPase FZO 2 antibody Mitochondrial transmembrane GTPase FZO1B antibody Mitofusin 1 antibody Mitofusin-1 antibody Mitofusin1 antibody MS996 antibody Putative transmembrane GTPase antibody Transmembrane GTPase MFN1 antibody
Accession No.	Swiss-Prot#:Q8IWA4
Uniprot	Q8IWA4
GeneID	55669;
Calculated MW	84 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

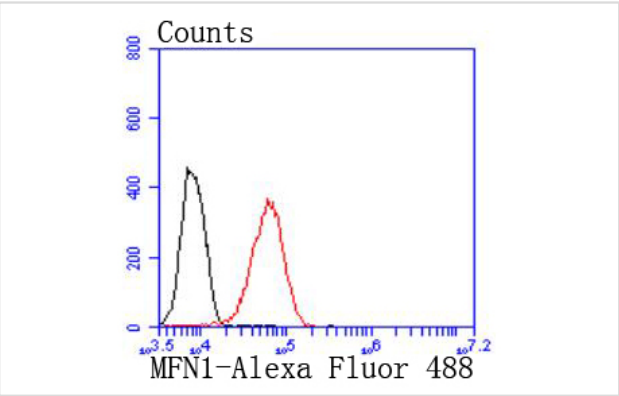
Application Details

WB: 1:1,000-1:2,000 FC: 1:50-1:100

Images



Western blot analysis of Mitofusin 1 on K562 cells lysates using anti-Mitofusin 1 antibody at 1/1,000 dilution.



Flow cytometric analysis of 293 cells with Mitofusin 1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Mitofusin 1 (Mfn1) and mitofusin 2 (Mfn2) are homologs for the Drosophila protein fuzzy onion (Fzo). They are mitochondrial membrane proteins and are mediators of mitochondrial fusion. A GTPase domain is required for Mfn protein function but the molecular mechanisms of the GTPase-dependent reaction as well as the functional division of the two Mfn proteins are unknown. They are essential for embryonic development and may play a role in the pathobiology of obesity. Although the Mfn1 and Mfn2 genes are broadly expressed, they show different levels of expression in different tissues. Two Mfn1 transcripts are elevated in heart, while Mfn2 mRNA is abundantly expressed in heart and muscle tissue but present only at low levels in many other tissues. Mfn1 localizes to mitochondria and participates in at least two different high molecular weight protein complexes in a GTP-dependent manner. Purified recombinant Mfn1 exhibited approximately eightfold higher GTPase activity than Mfn2.

References

Note: This product is for in vitro research use only