

# Mitofusin 1 Rabbit mAb

Catalog No: #49315

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

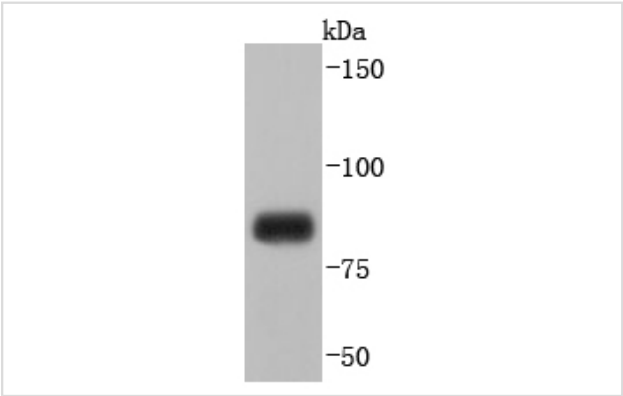
## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Mitofusin 1 Rabbit mAb                                                                                                                                                                                                                                                                                                                                                                                           |
| Host Species          | Recombinant Rabbit                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality             | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clone No.             | JF0954                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purification          | ProA affinity purified                                                                                                                                                                                                                                                                                                                                                                                           |
| Applications          | WB, IP, FC                                                                                                                                                                                                                                                                                                                                                                                                       |
| Species Reactivity    | Hu                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen Description | recombinant protein                                                                                                                                                                                                                                                                                                                                                                                              |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                                                                                                                                               |
| Calculated MW         | 84 kDa                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formulation           | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.                                                                                                                                                                                                                                                                                                                                             |
| Storage               | Store at -20°C                                                                                                                                                                                                                                                                                                                                                                                                   |

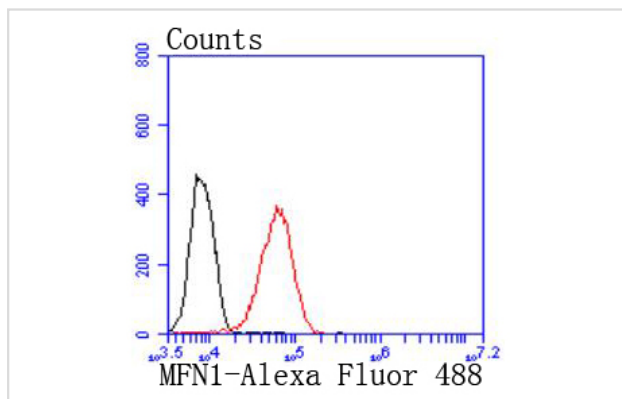
## Application Details

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 and is not intended for use in humans or animals.