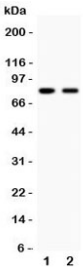
# MFN2 Antibody (R31678)

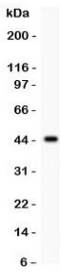
| Catalog No. | Formulation | Size |
|---|---|---|
| R31678 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

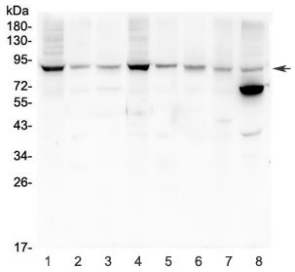
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **Gene ID** | 9927 |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This MFN2 antibody is available for research use only. |




Western blot testing of MFN2 antibody and human samples 1: HeLa; 2: A549. Predicted molecular weight ~86 kDa.




Western blot testing of MFN2 antibody and recombinant human protein (0.5ng)




Western blot testing of rat 1) brain, 2) heart, 3) kidney and mouse 4) brain, 5) heart, 6) kidney, 7) small intestine and 8) NIH3T3 lysate with MFN2 antibody. Predicted molecular weight ~86 kDa.

## Description

Mitofusin-2 is a protein that in humans is encoded by the MFN2 gene. It is mapped to chromosome 1 and encodes a 757-amino acid protein that contains an ATP/GTP-binding site motif. This gene is expressed in many tissues and cell lines such as brain and KG-1 with the highest expression in heart and skeletal muscle. It has been found that MFN2 triggers mitochondrial energization, at least in part, by regulating OXPHOS expression through signals that are independent of its role as a mitochondrial fusion protein. And it contributes to the maintenance and operation of the mitochondrial network. Axonal CMT type 2A and autosomal dominant HMSN VI are caused by MFN2 and mutations of, which emphasizes its important role of mitochondrial function for both optic atrophies and peripheral neuropathies.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MFN2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 601-757) was used as the immunogen for this MFN2 antibody.

## Storage

After reconstitution, the MFN2 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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