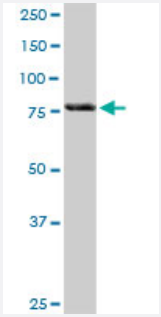
# MFN2 monoclonal antibody (M07), clone 4F5

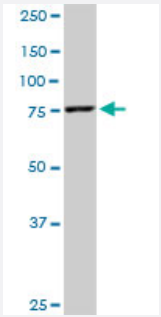
Catalog # H00009927-M07 Size 100 ug

## Applications



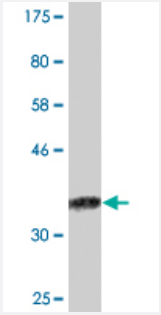

### Western Blot (Tissue lysate)

MFN2 monoclonal antibody (M07), clone 4F5. Western Blot analysis of MFN2 expression in human kidney.




### Western Blot (Cell lysate)

MFN2 monoclonal antibody (M07), clone 4F5. Western Blot analysis of MFN2 expression in Jurkat(Cat # L017V1 ).




Western Blot detection against Immunogen (36.41 KDa) .

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against a partial recombinant MFN2. |

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|---|---|
| **Immunogen** | MFN2 (NP_055689, 661 a.a. ~ 757 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Sequence** | FKRQFVEHASEKLQLVISYTGSNCSHQVQQELSGTFAHLCQQVDVTRENLEQEIAAMNKKIEVLDSLQSKAKLLRNKAGWLDSELNMFTHQYLQPSR |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Interspecies Antigen Sequence** | Mouse (93); Rat (93) |
| **Isotype** | IgG2a Kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.41 KDa) . |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Tissue lysate)

  MFN2 monoclonal antibody (M07), clone 4F5. Western Blot analysis of MFN2 expression in human kidney.

  Protocol Download

- Western Blot (Cell lysate)

  MFN2 monoclonal antibody (M07), clone 4F5. Western Blot analysis of MFN2 expression in Jurkat(Cat # L017V1 ).

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

## Gene Info — MFN2

| | |
|---|---|
| **Entrez GeneID** | 9927 |

| | |
|---|---|
| **GeneBank Accession#** | NM_014874 |
| **Protein Accession#** | NP_055689 |
| **Gene Name** | MFN2 |
| **Gene Alias** | CMT2A, CMT2A2, CPRP1, HSG, KIAA0214, MARF |
| **Gene Description** | mitofusin 2 |
| **Omim ID** | 601152 608507 609260 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000002509\|hyperplasia suppressor\|mitochondrial assembly regulatory factor\|mitofusin-2\|transmembrane GTPase MFN2 |

## Disease

- Charcot-Marie-Tooth Disease
- Genetic Predisposition to Disease
- Glaucoma
- Hereditary Sensory and Motor Neuropathy