

## Rabbit Mitofusin 2 Polyclonal Antibody | anti-MFN2 antibody

Mitofusin 2 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS        |
|-----------|--------|-------------------|---------------------|
| AAA329596 | Rabbit | Human, Mouse, Rat | ELISA, Western Blot |

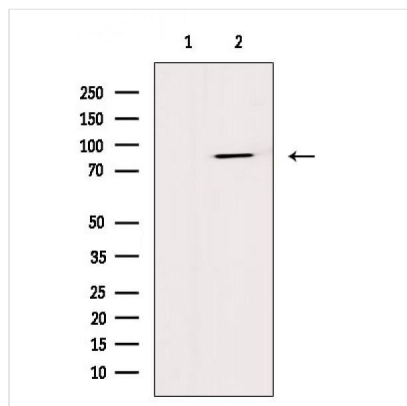
### PRODUCT SYNONYMS

Mitofusin 2; Polyclonal Antibody; Mitofusin 2 Antibody; CMT2A; CMT2A2; CPRP 1; CPRP1; EC 3.6.5.-; Fzo; HSG; hyperplasia suppressor gene; Hypertension related protein 1; KIAA0214; MARF; MFN 2; Mfn2; MFN2\_HUMAN; Mitochondrial assembly regulatory factor; Mitofusin-2; Mitofusin2; Transmembrane GTPase MFN2; anti-MFN2 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                           |
| Reactivity                                     | Human, Mouse, Rat                                                                                |
| Clonality                                      | Polyclonal                                                                                       |
| Isotype                                        | Rabbit IgG                                                                                       |
| Specificity                                    | Mitofusin 2 Antibody detects endogenous levels of total Mitofusin 2.                             |
| Purity/Purification                            | Peptide affinity purification                                                                    |
| Form/Format                                    | Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                           |
| Applicable Applications for anti-MFN2 antibody | ELISA (Peptide ELISA), WB (Western Blot)                                                         |
| Immunogen                                      | A synthesized peptide derived from human Mitofusin 2.                                            |
| Conjugation                                    | Unconjugated                                                                                     |
| Fragment                                       | Fab fragment                                                                                     |
| Preparation and Storage                        | Store at -20°C.                                                                                  |

### IMAGES



#### WB (Western Blot)

Western blot analysis of extracts from Rat brain, using Mitofusin 2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MFN2 antibody | Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion. Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events. Overexpression induces the formation of mitochondrial networks. Membrane clustering requires GTPase activity and may involve a major rearrangement of the coiled coil domains (Probable). Plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes (By similarity). Plays an important role in the regulation of vascular smooth muscle cell proliferation (By similarity). Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PRKN recruitment to dysfunctional mitochondria. Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress (By similarity). Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions (By similarity). |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 7662004                                                                                                  |
| NCBI GeneID                      | 9927                                                                                                     |
| NCBI Accession #                 | NP_055689                                                                                                |
| NCBI GenBank Nucleotide #        | NM_014874.3                                                                                              |
| UniProt Accession #              | O95140; O95572; Q5JXC3; Q5JXC4; Q9H131; Q9NSX8; A8K1B3                                                   |
| NCBI Official Full Name          | mitofusin-2                                                                                              |
| NCBI Official Synonym Full Names | mitofusin 2                                                                                              |
| NCBI Official Symbol             | MFN2                                                                                                     |
| NCBI Official Synonym Symbols    | HSG; MARF; CMT2A; CPRP1; CMT2A2                                                                          |
| NCBI Protein Information         | mitofusin-2; hyperplasia suppressor; transmembrane GTPase MFN2; mitochondrial assembly regulatory factor |
| UniProt Protein Name             | Mitofusin-2                                                                                              |
| UniProt Gene Name                | MFN2                                                                                                     |
| UniProt Synonym Gene Names       | CPRP1; KIAA0214                                                                                          |
| UniProt Entry Name               | MFN2_HUMAN                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.