

Human Mitofusin-2 (MFN2) ELISA Kit | MFN2 elisa kit

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CATALOG #
AAA331786

REACTIVITY
Human

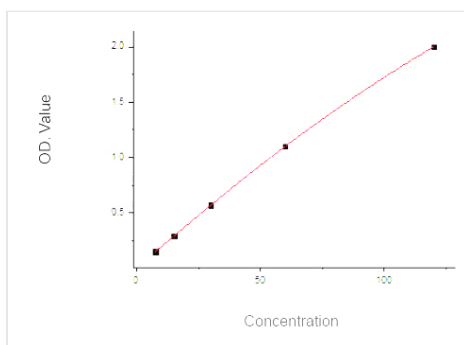
PRODUCT SYNONYMS

Mitofusin-2 (MFN2); Human Mitofusin-2 (MFN2) ELISA Kit; MFN2; RP5-1077B9.3; CMT2A; CMT2A2; CPRP1; HSG; KIAA0214; MARF; hyperplasia suppressor; mitochondrial assembly regulatory factor; mitofusin-2; transmembrane GTPase MFN2; MFN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mitofusin-2 (MFN2) ELISA Kit has high sensitivity and excellent specificity for detection of Human MFN2. No significant cross-reactivity or interference between Human MFN2 and analogues was observed.
Sequence Length	757
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	7.5 ug/L - 120 ug/L
Sensitivity	< 0.5ug/L
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%) $\leq$ 9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%) $\leq$ 11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MFN2 elisa kit	Background: MFN2 encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. Mitofusin-2 is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in MFN2 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 MFN2 have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. Principle of the Assay: Human Mitofusin-2 (MFN2) ELISA Kit employs a two-site sandwich ELISA to quantitate MFN2 in samples. An antibody specific for MFN2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MFN2 present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human MFN2 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of MFN2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7662004
NCBI GeneID	9927
NCBI Accession #	NP_055689
NCBI GenBank Nucleotide #	NP_055689.1
UniProt Accession #	O95140
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; HMSN6A; CMT2A2A; CMT2A2B
NCBI Protein Information	mitofusin-2
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.