

anti-Human Mitofusin 2 Polyclonal Antibody | anti-MFN2 antibody

Anti-Mitofusin 2 Antibody

CATALOG # AAA46486	REACTIVITY Human	APPLICATIONS Western Blot
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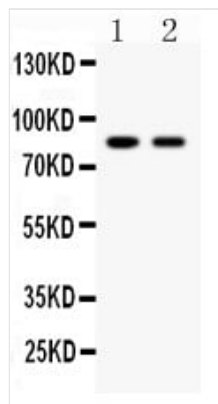
PRODUCT SYNONYMS

Mitofusin 2; Polyclonal Antibody; Anti-Mitofusin 2 Antibody; Mitofusin-2; CMT2A; CMT2A2; CPRP 1; CPRP1; Fzo; HSG; hyperplasia suppressor gene; Hypertension related protein 1; KIAA0214; MARF; MFN 2; Mfn2; MFN2_HUMAN; Mitochondrial assembly regulatory factor; Mitofusin2; Transmembrane GTPase MFN2; mitofusin 2; anti-MFN2 antibody

PRODUCT SPECIFICATIONS

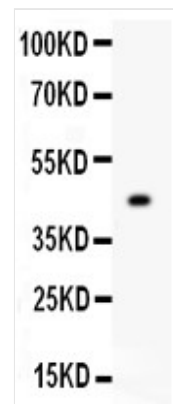
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	757
Applicable Applications for anti-MFN2 antibody	WB (Western Blot)
Immunogen	E Coli-derived human Mitofusin 2 recombinant protein (Position: V601-R757). Human Mitofusin 2 shares 96% and 95% amino acid (aa) sequence identity with mouse and rat Mitofusin 2, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Anti- Mitofusin-2 Picoband antibody, AAA46486, Western blottingAll lanes: Anti Mitofusin-2 (AAA46486) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugPredicted bind size: 86KDObserved bind size: 86KD



WB (Western Blot)

Anti- Mitofusin-2 Picoband antibody, AAA46486, Western blottingAll lanes: Anti Mitofusin-2 (AAA46486) at 0.5ug/mlWB: Recombinant Human Mitofusin-2 Protein 0.5ngPredicted bind size: 45KDObserved bind size: 45KD

ADDITIONAL INFORMATION

Related Product Information for anti-MFN2 antibody	Description: Rabbit IgG polyclonal antibody for Mitofusin-2(MFN2) detection. Tested with WB in Human. Background: 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 in MFN2, which emphasizes its important role of mitochondrial function for both optic atrophies and peripheral neuropathies.
References	1. Neuspiel M, Zunino R, Gangaraju S, Rippstein P, McBride H. Activated mitofusin 2 signals mitochondrial fusion, interferes with Bax activation, and reduces susceptibility to radical induced depolarization. J Biol Chem. 2005 Jul 1; 280(26):25060-70. 2. Santel A, Fuller MT. Control of mitochondrial morphology by a human mitofusin. J Cell Sci. 2001 Mar; 114(Pt 5):867-74 3. Pich, S., Bach, D., Briones, P., Liesa, M., Camps, M., Testar, X., Palacin, M., Zorzano, A. The Charcot-Marie-Tooth type 2A gene product, Mfn2, up-regulates fuel oxidation through expression of OXPHOS system. Hum. Molec. Genet. 14: 1405-1415, 2005. 4. Zuchner S, De Jonghe P, Jordanova A, Claeys KG, Guergueltcheva V, Cherninkova S, Hamilton SR, Van Stavern G, Krajewski KM, Stajich J, Tournev I, Verhoeven K, Langerhorst CT, de Visser M, Baas F, Bird T, Timmerman V, Shy M, Vance JM. Axonal neuropathy with optic atrophy is caused by mutations in mitofusin 2. Ann Neurol. 2006 Feb; 59(2):276.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189083768
NCBI GeneID	9927
NCBI Accession #	NP_001121132.1
NCBI GenBank Nucleotide #	NM_001127660.1
UniProt Accession #	O95140 ; O95572 ; Q5JXC3 ; Q5JXC4 ; Q9H131 ; Q9NSX8 ; A8K1B3
Molecular Weight	50,041 Da
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
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.

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 Online datasheet: <https://www.aaabiotech.com/polyclonal/mitofusin-2-antibody-western-blot-elisa/46486>