

Datasheet for 200-302-W71**Mitofusin 2 Antibody Fluorescein****Overview**

Description:	Anti-Mitofusin 2 (MOUSE) Monoclonal Antibody Fluorescein Conjugated - 200-302-W71
Item No.:	200-302-W71
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Mitofusin-2 (Mfn2) is a membrane protein of the mitochondria and is important in mitochondrial fusion in mammalian cells. Mfn2 activity has also been implicated in mitochondrial metabolism and the loss of Mfn2 may be the reason for certain metabolic modifications that are seen in individuals with obesity. Mfn2 has been associated with maintaining the membrane potential of the mitochondria. Mfn2 has been shown to hinder mitochondrial antiviral signaling by inhibiting production of type 1 interferons. Mfn2 is a p53-inducible target and involved in cell proliferation, apoptosis promotion and tumor suppression. Anti-Mitofusin-2 is ideal for research in Metabolic Processes and Hemostasis.
Synonyms:	CMT2A, CMT2A2, CPRP 1, CPRP1, Fzo, HSG, hyperplasia suppressor gene, Hypertension related protein 1, KIAA0214, MARF, MFN 2, Mfn2, Mitochondrial assembly regulatory factor, Mitofusin-2, Mitofusin2, Transmembrane GTPase MFN2
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	S153-5
Format:	IgG2a

Target Details

Gene Name:	Mfn2
Reactivity:	Mouse, Rat

Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Mitofusin 2 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 370-600 of mouse Mitofusin 2.
Purity/Specificity:	Anti-Mitofusin 2 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 97% identical to rat, 92% identical to human and ~55% identical to Mitofusin 1.
Relevant Links:	• UniProtKB - Q80U63 • GenelD - 170731

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Mitofusin 2 FITC Conjugated Antibody is tested for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~90kDa on specific lysates or tissues. Does not cross react with Mitofusin 1. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Conjugated antibodies should be stored according to the product label. Product stored in 640.91mM DMSO, 136.36mM Ethanolamine, 9.09mM Sodium Bicarbonate in 90.9% PBS.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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