

For Research Use Only

CoraLite®594-conjugated MFN2 Monoclonal antibody



Catalog Number: CL594-67487

Featured Product

Basic Information

Catalog Number:

CL594-67487

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG29873

GenBank Accession Number:

BC017061

GeneID (NCBI):

9927

ENSEMBL Gene ID:

ENSG00000116688

UNIPROT ID:

O95140

Full Name:

mitofusin 2

Calculated MW:

757 aa, 86 kDa

Observed MW:

86 kDa

Purification Method:

Protein A purification

CloneNo.:

5F3B3

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

FC (Intra), IF/ICC

Species Specificity:

Human, Mouse, Rat

Positive Controls:

IF : HepG2 cells,

Background Information

MFN2, also named as CPRP1 and KIAA0214, belongs to the mitofusin family. It is an Essential transmembrane GTPase, which mediates mitochondrial fusion. MFN2 acts independently of the cytoskeleton. It therefore plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Overexpression of MFN2 induces the formation of mitochondrial networks. It plays an important role in the regulation of vascular smooth muscle cell proliferation. Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 2A2 (CMT2A2). Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 6 (CMT6). Ubiquitinated forms of Mfn2 (mono- and polyubiquitinated) are present during mitophagy.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

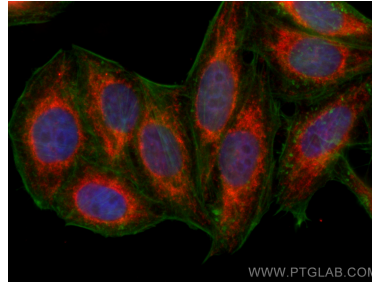
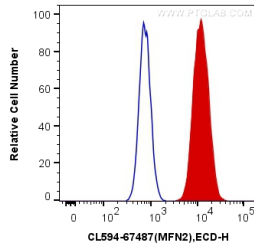
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Selected Validation Data



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human MFN2 (CL594-67487, Clone:5F3B3) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 MFN2 antibody (CL594-67487, Clone: 5F3B3) at dilution of 1:200, CL488-Phalloidin (green).