

For Research Use Only

CoraLite® Plus 488-conjugated MFN1 Polyclonal antibody

Catalog Number:CL488-13798

Featured Product



Basic Information

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|--|--|---|
| Catalog Number: CL488-13798 | GenBank Accession Number: BC040557 | Purification Method: Antigen affinity purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 55669 | Recommended Dilutions: IF/ICC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: Q8IWA4 | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Isotype: IgG | Full Name: mitofusin 1 | |
| Immunogen Catalog Number: AG4762 | Calculated MW: 741 aa, 84 kDa | |
| | Observed MW: 86 kDa | |

Applications

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|---|--|
| Tested Applications: IF/ICC, FC (Intra) | Positive Controls: IF/ICC : HEK-293 cells, |
| Species Specificity: human, mouse, rat | |

Background Information

Mitofusin-1 (MFN1) is a mediator of mitochondrial fusion. This protein and mitofusin 2 are homologs of the Drosophila protein fuzzy onion (Fzo). Mitofusins are large predicted GTPases located in outer mitochondrial membrane. They are essential for outer membrane fusion by interacting with each other to facilitate mitochondrial targeting. The mitofusins are the first known protein mediator of mitochondrial fusion, and mediate developmentally regulated post-meiotic fusion of mitochondria. Mfn1 is required on adjacent mitochondria to mediate fusion via interactions of a heptad repeat region that mediates oligomerization of the protein (PMID:16892085). Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy (PMID: 20871098).

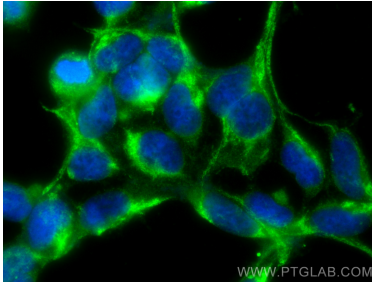
Storage

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

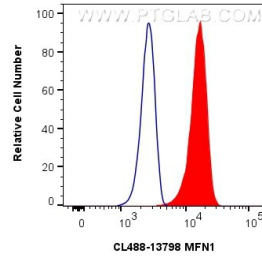
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CoraLite® Plus 488 MFN1 antibody (CL488-13798) at dilution of 1:200.



1x10⁶ HEK-293 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated MFN1 Polyclonal antibody (CL488-13798)(red), or 0.4 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).