

For Research Use Only

CoraLite® Plus 488-conjugated NDUFS1 Monoclonal antibody

Catalog Number: CL488-68253



Basic Information

Catalog Number:

CL488-68253

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG3135

GenBank Accession Number:

BC030833

GeneID (NCBI):

4719

UNIPROT ID:

P28331

Full Name:

NADH dehydrogenase (ubiquinone)
Fe-S protein 1, 75kDa (NADH-
coenzyme Q reductase)

Calculated MW:

727 aa, 79 kDa

Observed MW:

68-81 kDa

Purification Method:

Protein G purification

CloneNo.:

3H5E8

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima

wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

IF/ICC : HepG2 cells,

Background Information

The multisubunit NADH:ubiquinone oxidoreductase (75 kDa subunit, mitochondrial)(NDUFS1) is the first enzyme complex in the electron transport chain of mitochondria. It is also named as Complex I-75kD. By use of chaotropic agents, complex I can be fragmented into 3 different fractions: a flavoprotein fraction, an iron-sulfur protein (IP) fraction, and a hydrophobic protein (HP) fraction. NDUFS1 is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. NDUFS1 has some isoforms with the molecular mass of 68-81 kDa.

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

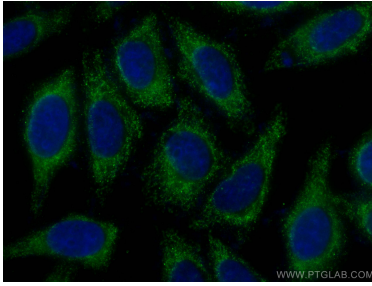
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

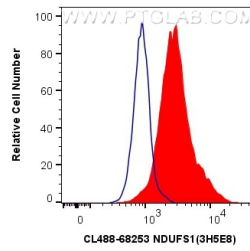
E: proteintech@ptglab.com
W: ptglab.com

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 HepG2 cells using Coralite® Plus 488 NDUFS1 antibody (CL488-68253, Clone: 3H5E8) at dilution of 1:100.



1X10⁶ Jurkat cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human NDUFS1 (CL488-68253, Clone:3H5E8) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).