For Research Use Only

NDUFS1 Monoclonal antibody

Catalog Number:68253-1-lg 1 Publications



Basic Information

Catalog Number: 68253-1-lg

GenBank Accession Number: BC030833 GeneID (NCBI):

P28331

Full Name:

Purification Method: Protein G purification

Size: 500 ug/ml Source:

4719 **UNIPROT ID:**

CloneNo.: 3H5E8

Mouse Isotype: lgG1

Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600 NADH dehydrogenase (ubiquinone)

Immunogen Catalog Number:

AG3135

Fe-S protein 1, 75kDa (NADHcoenzyme Q reductase)

Calculated MW: 727 aa, 79 kDa Observed MW: 68-81 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA Cited Applications:

Species Specificity:

human, mouse, rat, pig, rabbit

Cited Species:

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: pig brain tissue, HeLa cells, rabbit brain tissue, rat brain tissue, mouse brain tissue, pig heart tissue, rat heart tissue, mouse heart tissue

IHC: mouse heart tissue, IF/ICC: HepG2 cells, HeLa 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yixin Fan	38991331	Arch Oral Biol	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

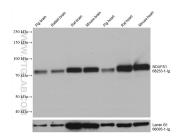
Aliquoting is unnecessary for -20°C storage

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

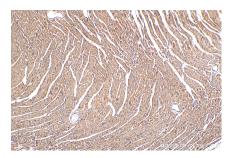
T: 4006900926 E: Proteintech-CN@ptglab.com

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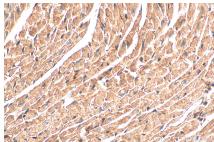
Selected Validation Data



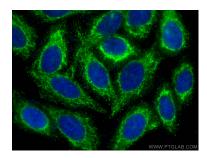
Various lysates were subjected to SDS PAGE followed by western blot with 68253-1-1g (NDUFS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-1g) as loading control.



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 68253-1-Ig (NDUFS1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 68253-1-Ig (NDUFS1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using NDUFS1 antibody (68253-1-lg, Clone: 3H5E8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).