

For Research Use Only

NDUFS1 Monoclonal antibody

Catalog Number: 68253-1-Ig



Basic Information

Catalog Number: 68253-1-Ig	GenBank Accession Number: BC030833	Purification Method: Protein G purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 4719	CloneNo.: 3H5E8
Source: Mouse	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:400-1:1600
Isotype: IgG1	Calculated MW: 727 aa, 79 kDa	
Immunogen Catalog Number: AG3135	Observed MW: 68-81 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat, Pig, Rabbit

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 : 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. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

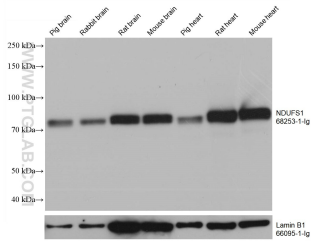
For technical support and original validation data for this product please contact:

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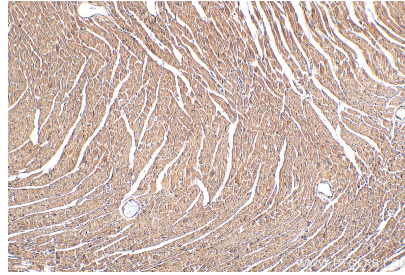
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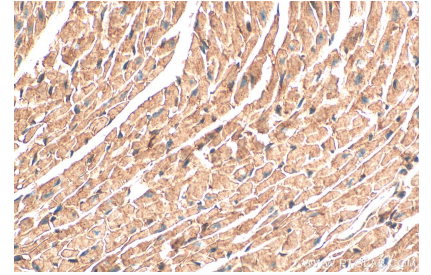
Selected Validation Data



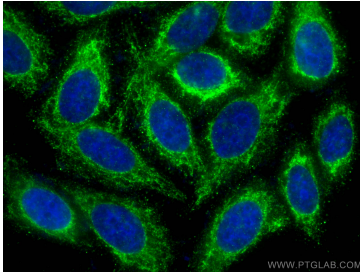
Various lysates were subjected to SDS PAGE followed by western blot with 68253-1-Ig (NDUFS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control.



Immunohistochemical analysis of paraffin-embedded 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 paraffin-embedded 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-Ig, Clone: 3H5E8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).