

For Research Use Only

NDUFS5 Polyclonal antibody

Catalog Number: 15224-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

15224-1-AP

Size:

150ul, Concentration: 220 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7441

GenBank Accession Number:

BC001884

GeneID (NCBI):

4725

UNIPROT ID:

O43920

Full Name:

NADH dehydrogenase (ubiquinone)
Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)

Calculated MW:

13 kDa

Observed MW:

15 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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: HEK-293 cells, L02 cells, mouse heart tissue, mouse liver tissue, rat liver tissue

IHC: human liver tissue,

Background Information

NDUFS5 gene is a member of the NADH dehydrogenase (ubiquinone) iron-sulfur protein family. The encoded protein is a subunit of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. The NDUFS5 mRNA is expressed ubiquitously in human tissues, with a relative higher expression in human heart, skeletal muscle, liver, kidney and fetal heart (PMID: 10070614). The NDUFS5 (15 kDa) subunit located at mitochondrion and contains two C-X9-C motifs that are predicted to form a helix-coil-helix structure, permitting the formation of intramolecular disulfide bonds (PMID: 21310150).

Notable Publications

Author	Pubmed ID	Journal	Application
Yueh-Lin Tsai	32381627	Genes Dev	
Andrea Curtabbi	38145589	Redox Biol	WB
Yang Zhu	37578635	Neurosci Bull	WB

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

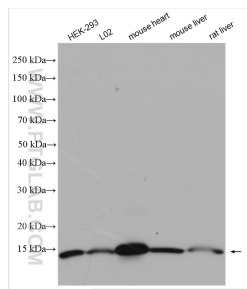
For technical support and original validation data for this product please contact:

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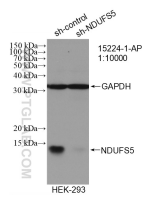
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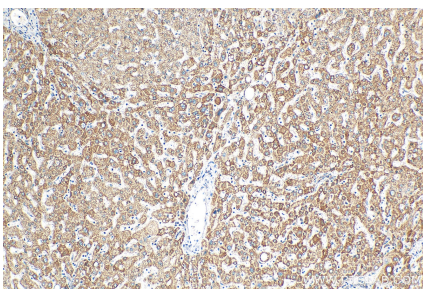
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15224-1-AP (NDUFS5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



WB result of NDUFS5 antibody (15224-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NDUFS5 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15224-1-AP (NDUFS5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).