

# NDUFS5 Polyclonal antibody

Catalog Number: 15224-1-AP

Featured Product

5 Publications

## Basic Information

## Catalog Number:

15224-1-AP

## Size:

800 µg/ml

## 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:

IHC, WB, 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

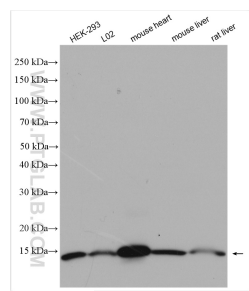
For technical support and original validation data for this product please contact:

T: 4006900926

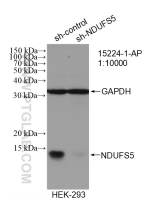
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
other manufacturer.**

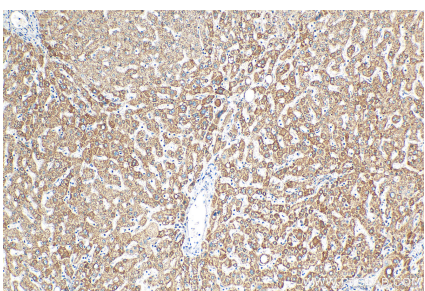
Selected Validation Data



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).