

For Research Use Only

# NDUFS5 Monoclonal antibody

Catalog Number: 66053-1-Ig



## Basic Information

<b>Catalog Number:</b> 66053-1-Ig	<b>GenBank Accession Number:</b> BC001884	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2400 µg/ml	<b>GeneID (NCBI):</b> 4725	<b>CloneNo.:</b> 2C2A5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O43920	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:20-1:200
<b>Isotype:</b> IgG2b	<b>Full Name:</b> NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH- coenzyme Q reductase)	
<b>Immunogen Catalog Number:</b> AG7663	<b>Calculated MW:</b> 13 kDa	
	<b>Observed MW:</b> 15 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human

**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:** HepG2 cells, L02 cells, HEK-293 cells, fetal human brain tissue

**IHC:** human kidney tissue, 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). Proteintech's NDUFS5 antibody 66053-1-Ig is capable of detecting the 15 kDa protein in Western blotting.

## 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:

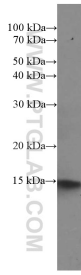
T: 4006900926

E: Proteintech-CN@ptglab.com

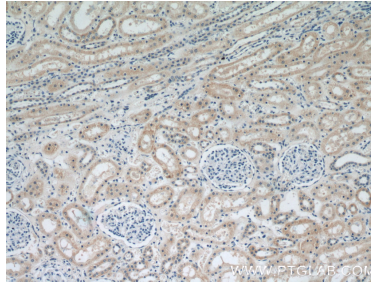
W: ptgcn.com

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

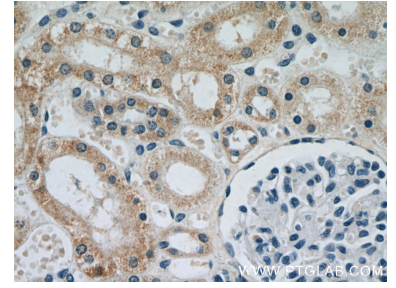
## Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 66053-1-Ig (NDUFS5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney using 66053-1-Ig(NDUFS5 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 66053-1-Ig(NDUFS5 antibody) at dilution of 1:50 (under 40x lens).