

For Research Use Only

# NDUFV1 Polyclonal antibody

Catalog Number: 11238-1-AP

Featured Product

45 Publications



## Basic Information

### Catalog Number:

11238-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1764

### GenBank Accession Number:

BC015645

### GeneID (NCBI):

4723

### UNIPROT ID:

P49821

### Full Name:

NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa

### Calculated MW:

51 kDa

### Observed MW:

45 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**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 : A549 cells, HEK-293 cells, HeLa cells, HepG2 cells, U2OS cells, mouse heart tissue

IP : A431 cells,

IHC : human lung cancer tissue,

## Background Information

DUFV1(NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial) is also named as UQOR1,Complex I-51kD and belongs to the complex I 51 kDa subunit family. It is the core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. It has 2 isoforms produced by alternative splicing. Defects in NDUFV1 are a cause of Leigh syndrome (LS) and mitochondrial complex I deficiency (MT-C1D).

## Notable Publications

Author	Pubmed ID	Journal	Application
Erika Fernández-Vizarra	36198313	Cell Metab	WB
Ahmad Alahmad	32969598	EMBO Mol Med	WB
David A Stroud	27626371	Nature	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

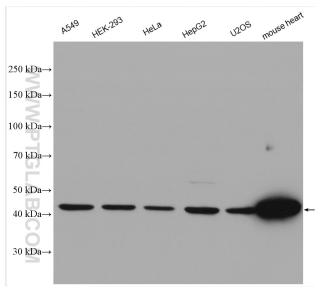
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

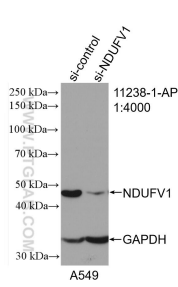
E: proteintech@ptglab.com  
W: ptglab.com

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

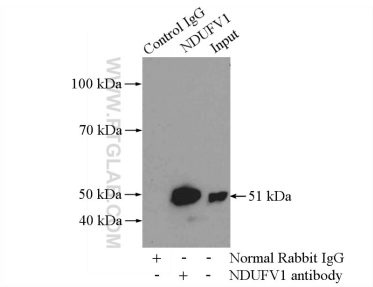
Selected Validation Data



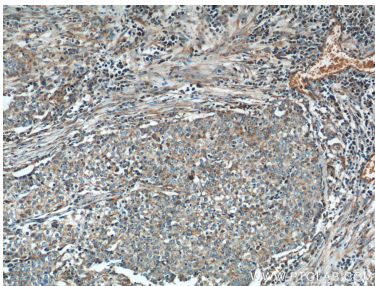
Various lysates were subjected to SDS PAGE followed by western blot with 11238-1-AP (NDUFV1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



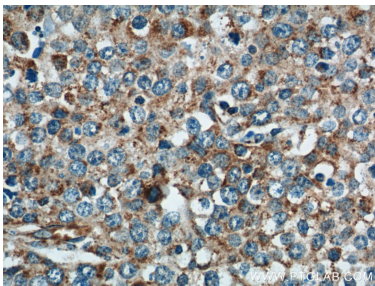
WB result of NDUFV1 antibody (11238-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NDUFV1 transfected A549 cells.



IP result of anti-NDUFV1 (IP:11238-1-AP, 4ug; Detection:11238-1-AP 1:500) with A431 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11238-1-AP (NDUFV1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11238-1-AP (NDUFV1 Antibody) at dilution of 1:200 (under 40x lens).