

For Research Use Only

# NDUFA5 Polyclonal antibody

Catalog Number: 16640-1-AP

8 Publications



## Basic Information

### Catalog Number:

16640-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 213 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9995

### GenBank Accession Number:

BC000813

### GeneID (NCBI):

4698

### UNIPROT ID:

Q16718

### Full Name:

NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa

### Calculated MW:

13 kDa

### Observed MW:

13 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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** : HeLa cells, mouse brain tissue, rat brain tissue, Jurkat cells, mouse liver tissue

**IHC** : mouse cerebellum tissue, human brain tissue

**IF/ICC** : HepG2 cells, HeLa cells

## Background Information

NDUFA5, also named as CI-13kD-B and NDU5, belongs to the complex I NDUFA5 subunit family. It is accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which functions in the transfer of electrons from NADH to the respiratory chain. NDUFA5, an enrichment of mitochondrial protein, can be used as a mitochondrial marker protein (PMID:21360670).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jeng-Yuan Shiau	26557148	Evid Based Complement Alternat Med	WB
Cong Wang	31721420	EMBO Rep	WB
Maria Soledad Alvarez	36362254	Int J Mol Sci	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

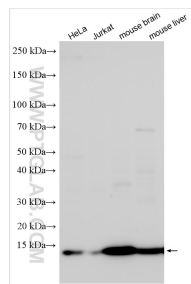
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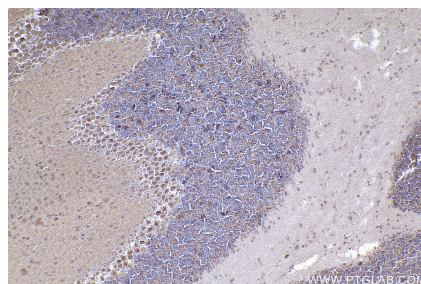
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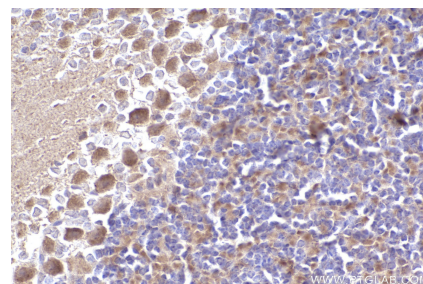
## Selected Validation Data



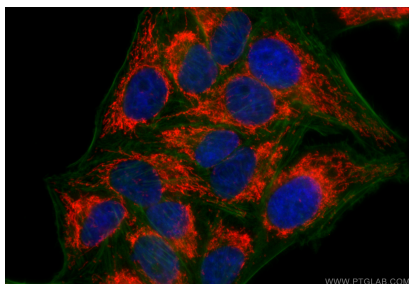
Various lysates were subjected to SDS PAGE followed by western blot with 16640-1-AP (NDUFA5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 16640-1-AP (NDUFA5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 16640-1-AP (NDUFA5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NDUFA5 antibody (16640-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).