

For Research Use Only

# NDUFA10 Polyclonal antibody

Catalog Number: 32947-1-AP



## Basic Information

<b>Catalog Number:</b> 32947-1-AP	<b>GenBank Accession Number:</b> BC003417	<b>Purification Method:</b> Antigen affinity Purification
<b>Concentration:</b> 500 ug/ml	<b>GeneID (NCBI):</b> 4705	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:2500-1:10000 IF/ICC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95299	
<b>Isotype:</b> IgG	<b>Full Name:</b> NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa	
<b>Immunogen Catalog Number:</b> AG37576	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
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:** HeLa cells, HepG2 cells, L02 cells, RAW264.7 cells, mouse liver tissue, Jurkat cells, RAW 264.7 cells

**IHC:** human ovary tumor tissue,

**IF/ICC:** A431 cells, HeLa cells

## Background Information

NDUFA10 (NADH:ubiquinone oxidoreductase subunit A10) is a subunit of mitochondrial complex I of the electron transport chain, encoding a protein with NADH dehydrogenase and oxidoreductase activity. This protein transfers electrons from NADH to the respiratory chain. Mutations in the NDUFA10 gene are associated with Leigh syndrome, a common mitochondrial energy metabolism disorder in children. Additionally, the expression levels of NDUFA10 are related to the occurrence and prognosis of various diseases. For example, in Alzheimer's disease, its low expression is associated with increased dementia severity. In prostate cancer, low expression of NDUFA10 predicts a poor prognosis.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

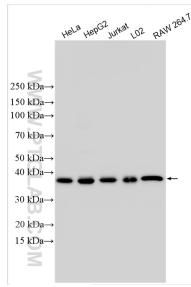
T: 4006900926

E: Proteintech-CN@ptglab.com

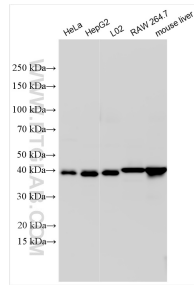
W: ptgcn.com

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

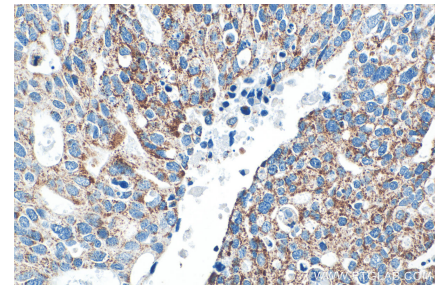
## Selected Validation Data



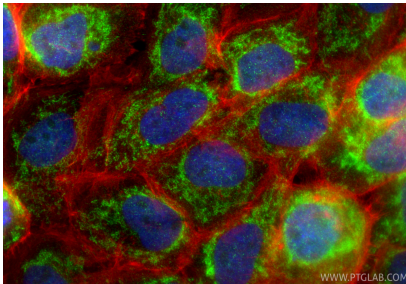
Various lysates were subjected to SDS PAGE followed by western blot with 32947-1-AP (NDUFA10 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



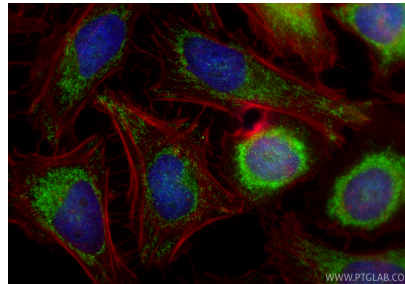
Various lysates were subjected to SDS PAGE followed by western blot with 32947-1-AP (NDUFA10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 32947-1-AP (NDUFA10 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using NDUFA10 antibody (32947-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NDUFA10 antibody (32947-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).