

For Research Use Only

# ND5 Polyclonal antibody

Catalog Number: 55410-1-AP **22 Publications**



## Basic Information

|                                                                                                |                                                                |                                                                    |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Catalog Number:</b><br>55410-1-AP                                                           | <b>GenBank Accession Number:</b><br>AF465942                   | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 280 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>4540                                  | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit                                                                       | <b>UNIPROT ID:</b><br>U5ZC31                                   |                                                                    |
| <b>Isotype:</b><br>IgG                                                                         | <b>Full Name:</b><br>NADH dehydrogenase, subunit 5 (complex I) |                                                                    |
|                                                                                                | <b>Calculated MW:</b><br>67 kDa                                |                                                                    |
|                                                                                                | <b>Observed MW:</b><br>65-70 kDa                               |                                                                    |

## Applications

|                                                     |                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>IHC, WB, ELISA       | <b>Positive Controls:</b><br>WB : mouse liver tissue,<br>IHC : human liver tissue, |
| <b>Cited Applications:</b><br>WB                    |                                                                                    |
| <b>Species Specificity:</b><br>human, mouse         |                                                                                    |
| <b>Cited Species:</b><br>human, rat, mouse, hamster |                                                                                    |

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ND5 belongs to the complex I subunit 1 family. ND5 is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.

## Notable Publications

| Author     | Pubmed ID | Journal       | Application |
|------------|-----------|---------------|-------------|
| Q E Xie    | 34571250  | Mitochondrion | WB          |
| Ying Shu   | 36314841  | EMBO J        | WB          |
| Jing Zhang | 26492917  | EMBO J        | WB          |

## Storage

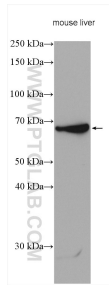
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

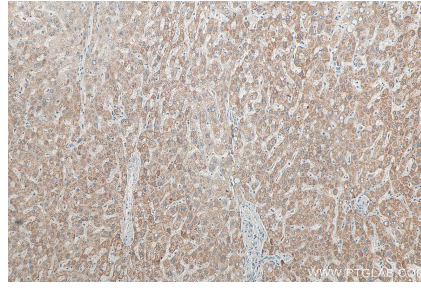
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 55410-1-AP (ND5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 55410-1-AP (ND5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).