

For Research Use Only

# ND5 Polyclonal antibody

Catalog Number: 55410-1-AP **23 Publications**



## Basic Information

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

## Applications

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

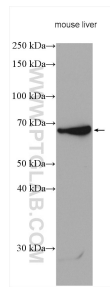
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

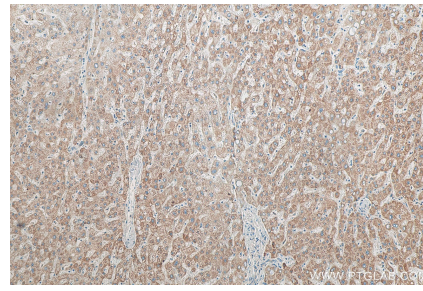
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## 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).