

For Research Use Only

# SEC63 Polyclonal antibody

Catalog Number: 13978-1-AP

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 13978-1-AP	<b>GenBank Accession Number:</b> BC047221	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 11231	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> SEC63 homolog ( <i>S. cerevisiae</i> )	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 88 kDa	
<b>Immunogen Catalog Number:</b> AG5021	<b>Observed MW:</b> 83-90 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, WB	<b>WB:</b> A431 cells, HEK-293 cells, PC-3 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IP:</b> A431 cells,
<b>Cited Species:</b> human, mouse	<b>IHC:</b> human liver tissue, mouse pancreas tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF:</b> HEK-293 cells, mouse kidney tissue

## Background Information

SEC63 is a integral ER membrane protein. SEC63 and SEC62 form a dimeric complex and play a central role in translocation of nascent and newly synthesized precursor polypeptides into the ER. Mutations in the gene encoding SEC63 cause polycystic liver disease in humans. The intact SEC63 protein is usually detected around 83-90 kDa, while smaller cleavage products can be observed by autophagy proteolysis (PMID: 25052096)

## Notable Publications

Author	Pubmed ID	Journal	Application
Tetsuya Hirata	36055406	J Biol Chem	WB
Hossam Hassan	26303067	J Am Soc Nephrol	WB, IF
Brian J Conti	25801167	Mol Cell	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

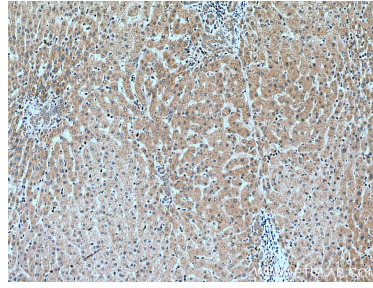
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

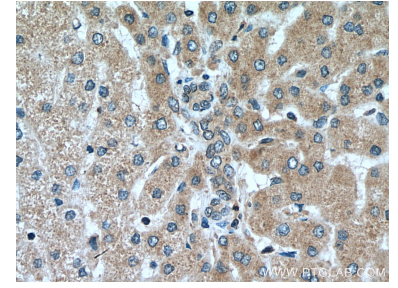
## Selected Validation Data



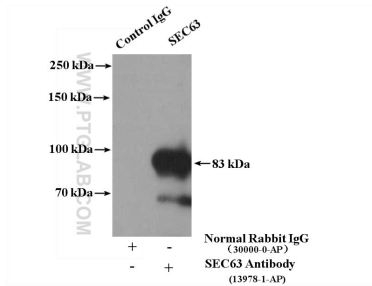
A431 cells were subjected to SDS PAGE followed by western blot with 13978-1-AP (SEC63 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



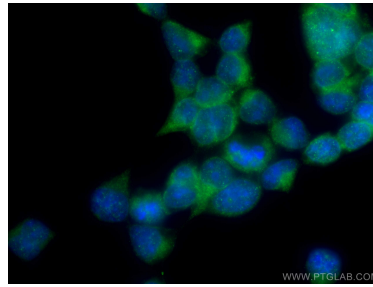
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13978-1-AP (SEC63 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13978-1-AP (SEC63 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-SEC63 (IP:13978-1-AP, 4ug; Detection:13978-1-AP 1:300) with A431 cells lysate 2400ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SEC63 antibody (13978-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).