

For Research Use Only

# SERP1 Polyclonal antibody

Catalog Number: 17807-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 17807-1-AP	<b>GenBank Accession Number:</b> BC108314	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 193 µg/ml by Nanodrop and 193 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 27230	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> stress-associated endoplasmic reticulum protein 1	<b>IHC 1:20-1:200</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 66 aa, 7 kDa	
<b>Immunogen Catalog Number:</b> AG12087	<b>Observed MW:</b> 10 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB:</b> mouse brain tissue, HeLa cells, mouse pancreas tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IP:</b> mouse brain tissue,
<b>Cited Species:</b> human	<b>IHC:</b> human endometrial cancer tissue, <b>IF:</b> HeLa cells,

**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

Stress-associated endoplasmic reticulum (ER) protein 1 (SERP1), also known as ribosome-associated membrane protein 4 (RAMP4), is a Sec61-associated polypeptide that is induced by ER stress [PMID:16705175]. SERP1 interacts with target proteins during their translocation into the lumen of the endoplasmic reticulum. It controls glycosylation of major histocompatibility complex class II-associated invariant chains by a translocational pausing mechanism, and its overexpression stabilizes newly synthesized membrane proteins under ER stress by associating with the Sec61 complex [PMID:10601334]. It is suggested SERP1 is involved in the biosynthesis/processing of secretory proteins

## Notable Publications

Author	Pubmed ID	Journal	Application
Feng Li	36505280	Am J Transl Res	IHC
Jia-Ni Tian	31461934	Viruses	
Xuan Tan	36952345	Cell Rep	WB

## Storage

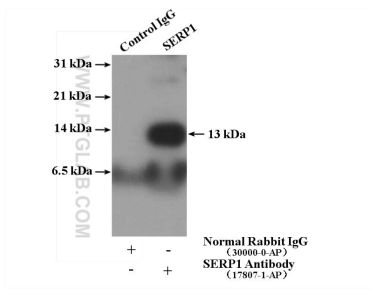
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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

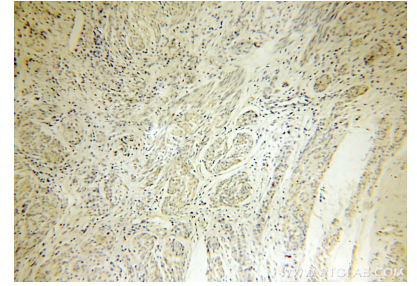
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data

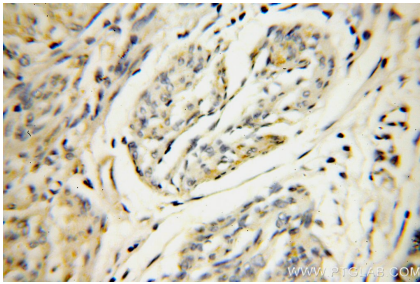


IP result of anti-SERP1 (IP:17807-1-AP, 4 $\mu$ g; Detection:17807-1-AP 1:500) with mouse brain tissue lysate 3160  $\mu$ g.

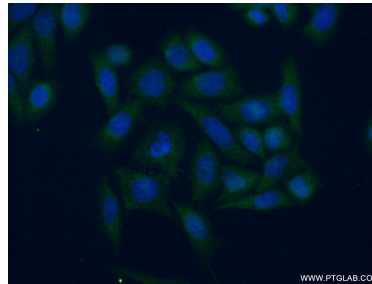
mouse brain tissue were subjected to SDS PAGE followed by western blot with 17807-1-AP (SERP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 17807-1-AP (SERP1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 17807-1-AP (SERP1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 17807-1-AP (SERP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).