

For Research Use Only

# SERP1 Polyclonal antibody

Catalog Number: 17807-1-AP

4 Publications



## Basic Information

### Catalog Number:

17807-1-AP

### Size:

150ul, Concentration: 193 ug/ml by Nanodrop and 193 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12087

### GenBank Accession Number:

BC108314

### GeneID (NCBI):

27230

### UNIPROT ID:

Q9Y6X1

### Full Name:

stress-associated endoplasmic reticulum protein 1

### Calculated MW:

66 aa, 7 kDa

### Observed MW:

10 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : mouse brain tissue, HeLa cells, mouse pancreas tissue

IP : mouse brain tissue,

IHC : human endometrial cancer tissue,

IF/ICC : 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	
Jiaqi Zhang	39840762	Cancer Med	IHC

## 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

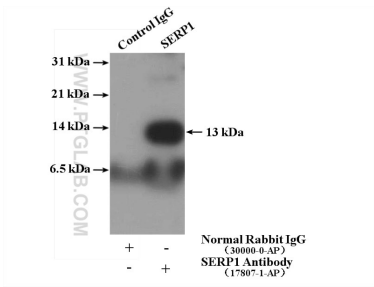
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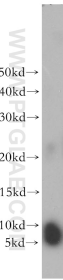
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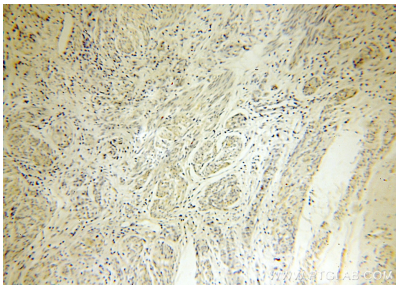
Selected Validation Data



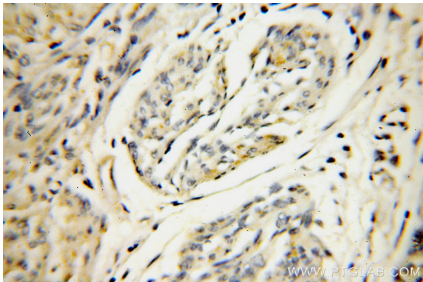
IP result of anti-SERP1 (IP:17807-1-AP, 4ug; Detection:17807-1-AP 1:500) with mouse brain tissue lysate 3160 ug.



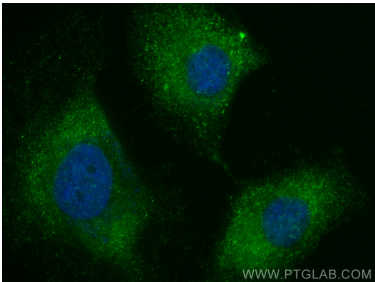
mouse brain tissue were subjected to SDS PAGE followed by western blot with 17807-1-AP (SERP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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 SERP1 antibody (17807-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).