

For Research Use Only

# SERPING1/C1 Inactivator Polyclonal antibody

Catalog Number: 12259-1-AP

11 Publications



## Basic Information

<b>Catalog Number:</b> 12259-1-AP	<b>GenBank Accession Number:</b> BC011171	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 710	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:200-1:800 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05155	
<b>Isotype:</b> IgG	<b>Full Name:</b> serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	
<b>Immunogen Catalog Number:</b> AG2819	<b>Calculated MW:</b> 500 aa, 55 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, mouse

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

**Positive Controls:**

**WB:** human plasma, HeLa cells, human liver tissue, L02 cells, mouse liver tissue, HepG2 cells, human urine tissue

**IHC:** human tonsillitis tissue, human normal colon

**IF/ICC:** HepG2 cells,

## Background Information

SERPING1, also known as C1 Inhibitor (C1INH), is a member of the Serine proteinase inhibitor family. Its main function is the inhibition of the complement system to prevent spontaneous activation. It inhibits activated C1r and C1s of the first complement component and thus regulates complement activation. Deficiency of this protein is associated with hereditary angioneurotic oedema (HANE). C1INH is the most heavily glycosylated plasma protein. Of its 95-105 kDa apparent molecular mass, the protein moiety of 500 aa accounts for only 55 kDa. The native 105 kDa form of C1INH could be cleaved into 60-65 kDa fragments.

## Notable Publications

Author	Pubmed ID	Journal	Application
Daria Zamolodchikov	26613657	J Thromb Haemost	WB
Koji Abe	31771070	J Alzheimers Dis	IHC
Dorit Farfara	30882931	Glia	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

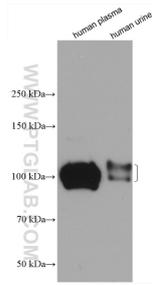
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

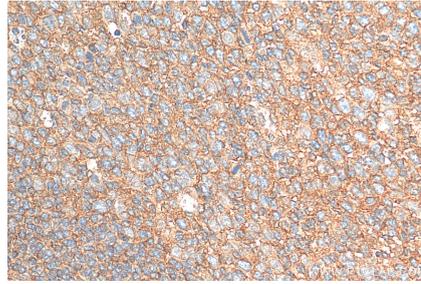
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



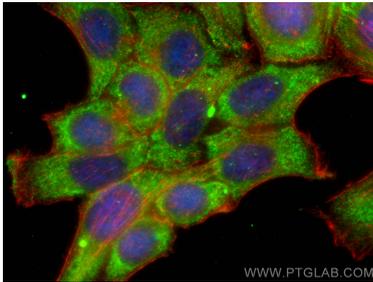
Various lysates were subjected to SDS PAGE followed by western blot with 12259-1-AP (SERPING1/C1 Inactivator antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



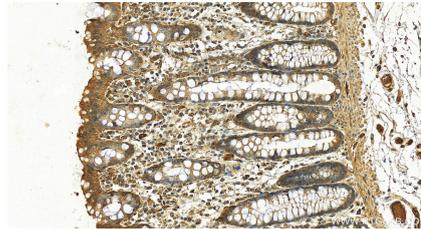
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12259-1-AP (SERPING1/C1 Inactivator antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



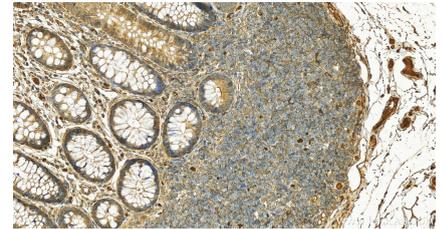
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12259-1-AP (SERPING1/C1 Inactivator antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using SERPING1/C1 Inactivator antibody (12259-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 12259-1-AP (SERPING1/C1 Inactivator antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 12259-1-AP (SERPING1/C1 Inactivator antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).