

For Research Use Only

# Neuroserpin Monoclonal antibody

Catalog Number: 66997-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66997-1-Ig	<b>GenBank Accession Number:</b> BC018043	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5274	<b>CloneNo.:</b> 1G4C6
<b>Source:</b> Mouse	<b>Full Name:</b> serpin peptidase inhibitor, clade I (neuroserpin), member 1	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:1000-1:4000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 410 aa, 47 kDa	
<b>Immunogen Catalog Number:</b> AG28636	<b>Observed MW:</b> 46 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : pig brain tissue, IHC : rat cerebellum tissue, IF : U-251 cells,
<b>Cited Applications:</b> IF, WB	
<b>Species Specificity:</b> Human, pig, rat	
<b>Cited Species:</b> mouse	

**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

Neuroserpin is a member of the serpin family of serine protease inhibitors predominantly expressed in the nervous system, such as the cerebral cortex, hippocampus and the spinal cord. Neuroserpin exerts protective effects in neurons against excitotoxicity both in vitro and in vivo. Its proteolytic inhibitory activity is shown to protect neurons against damage caused by plasmin activation. Mice overexpressing neuroserpin exhibited loss of tPA activity in the brain. Overexpression of neuroserpin in primary neurons leads to increased dendritic arborization and altered dendritic spine shape.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nicole R Higgins	33780087	Brain Pathol	WB,IF

## Storage

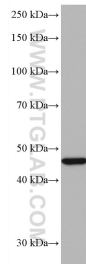
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

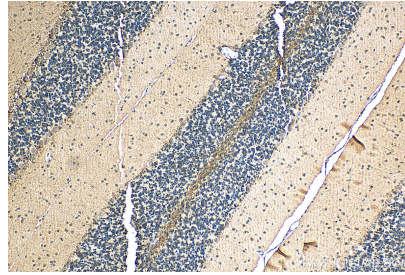
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

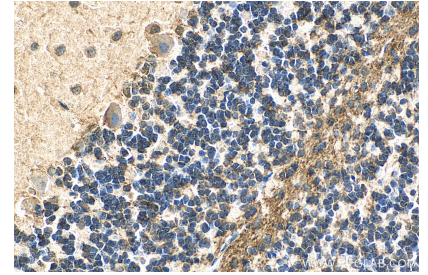
## Selected Validation Data



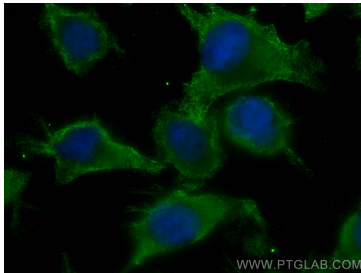
pig brain tissue were subjected to SDS PAGE followed by western blot with 66997-1-Ig (SERPIN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 66997-1-Ig (Neuroserpin antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 66997-1-Ig (Neuroserpin antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using Neuroserpin antibody (66997-1-Ig, Clone: 1G4C6) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).