

# Neuroserpin Polyclonal antibody

Catalog Number:12558-1-AP

## Basic Information

**Catalog Number:**

12558-1-AP

**Size:**

600 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3275

**GenBank Accession Number:**

BC018043

**GeneID (NCBI):**

5274

**UNIPROT ID:**

Q99574

**Full Name:**

serpin peptidase inhibitor, clade I  
(neuroserpin), member 1

**Calculated MW:**

410 aa, 47 kDa

**Observed MW:**

46 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

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

IF-P 1:50-1:500

## Applications

**Tested Applications:**

WB, IF-P, IP, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

WB : mouse brain tissue,

IP : rat brain tissue,

IF-P : mouse brain tissue,

## 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.

## Storage

**Storage:**

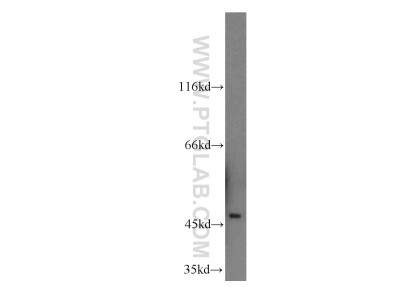
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

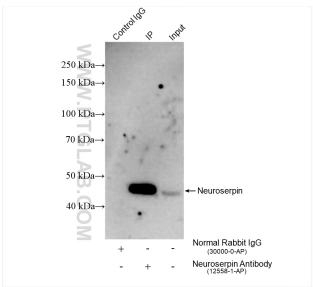
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

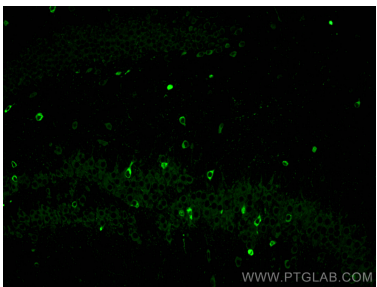
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 12558-1-AP (Neuroserpin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-Neuroserpin (IP:12558-1-AP, 4ug; Detection:12558-1-AP 1:300) with rat brain tissue lysate 1880 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Neuroserpin antibody (12558-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).