

Goat Anti-Neuroserpin Antibody
Peptide-affinity purified goat antibody
Catalog # AF1726a**Specification**

Goat Anti-Neuroserpin Antibody - Product Information

Application	WB
Primary Accession	Q99574
Other Accession	NP_001116224 , 5274
Reactivity	Human
Predicted	Mouse, Rat, Pig, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	46427

Goat Anti-Neuroserpin Antibody - Additional Information**Gene ID** 5274**Other Names**

Neuroserpin, Peptidase inhibitor 12, PI-12, Serpin I1, SERPINI1, PI12

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Neuroserpin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Neuroserpin Antibody - Protein Information**Name** SERPINI1**Synonyms** PI12**Function**Serine protease inhibitor that inhibits plasminogen activators and plasmin but not thrombin (PubMed: [9442076](http://www.uniprot.org/citations/9442076)), PubMed: [26329378](http://www.uniprot.org/citations/26329378), PubMed: [19265707](http://www.uniprot.org/citations/19265707)),

PubMed:19285087,
PubMed:11880376).
May be involved in the formation or reorganization of synaptic connections as well as for synaptic
plasticity in the adult nervous system. May protect neurons from cell damage by tissue-type
plasminogen activator (Probable).

Cellular Location

Secreted. Cytoplasmic vesicle, secretory vesicle lumen. Perikaryon

Tissue Location

Detected in brain cortex and hippocampus pyramidal neurons (at protein level)
(PubMed:17040209). Detected in cerebrospinal fluid (at protein level) (PubMed:25326458).
Predominantly expressed in the brain (PubMed:9070919).

Goat Anti-Neuroserpin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Neuroserpin Antibody - Images



AF1726a (1 µg/ml) staining of Human Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Neuroserpin Antibody - Background

This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The protein is primarily secreted by axons in the brain, and preferentially reacts with and inhibits tissue-type plasminogen activator. It is thought to play a role in the regulation of axonal growth and the development of synaptic plasticity. Mutations in this gene result in familial encephalopathy with neuroserpin inclusion bodies (FENIB), which is a dominantly inherited form of familial encephalopathy and epilepsy characterized by the accumulation of mutant neuroserpin polymers.

Multiple alternatively spliced variants, encoding the same protein, have been identified.

Goat Anti-Neuroserpin Antibody - References

Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. Hum Immunol, 2010 Jul. PMID 20438785.

Risk of meningioma and common variation in genes related to innate immunity. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2010 May. PMID 20406964.

Neuroserpin polymers activate NF-kappaB by a calcium signaling pathway that is independent of the unfolded protein response. Davies MJ, et al. J Biol Chem, 2009 Jul 3. PMID 19423713.

Common variation in genes related to innate immunity and risk of adult glioma. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2009 May. PMID 19423540.

Human neuroserpin: structure and time-dependent inhibition. Ricagno S, et al. J Mol Biol, 2009 Apr 24. PMID 19265707.