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Goat Anti-Neuroserpin Antibody

Peptide-affinity purified goat antibody

Catalog # AF1726a

Specification

Goat Anti-Neuroserpin Antibody - Product Information

Application	**WB, E**
Primary Accession	Q99574
Other Accession	NP_001116224, 5274
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig**
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

Dilution
WB~~1:1000
E~~N/A

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:11880376, PubMed:19265707, PubMed:19285087, PubMed:26329378, PubMed:9442076). 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 Cytomety
- 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.
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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.
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