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Anti-Neuroserpin Picoband Antibody
Catalog # ABO12430

Specification

Anti-Neuroserpin Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q99574
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Neuroserpin(SERPINI1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Neuroserpin Picoband Antibody - Additional Information

Gene ID 5274

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

Calculated MW
46427 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Secreted.

Tissue Specificity
Predominantly expressed in the brain.

Protein Name
Neuroserpin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Neuroserpin (272-310aa KAQLVEEWANSVKKQKVEVYLPRFTVEQEIDLKDVLKA L), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino aci

Purification

Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Neuroserpin Picoband Antibody - Protein Information

Name SERPINI1

Synonyms PI12

Function
Serine protease inhibitor that inhibits plasminogen activators and plasmin but not thrombin (PubMed:9442076, PubMed:26329378, PubMed: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).

Anti-Neuroserpin Picoband 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

Anti-Neuroserpin Picoband Antibody - Images

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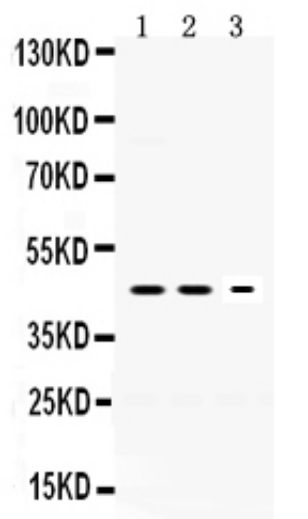

Anti-Neuroserpin Picoband antibody, ABO12430, Western blottingAll lanes: Anti Neuroserpin (ABO12430) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: PANC Whole Cell Lysate at 40ugPredicted bind size: 46KDObserved bind size: 46KD

Anti-Neuroserpin Picoband Antibody - Background

Neuroserpin is a protein that in humans is encoded by the SERPINI1 gene. 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.