

Anti-Neuroserpin Picoband Antibody

Catalog # ABO12430

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.

Additional Information

Gene ID	5274
Other Names	Neuroserpin, Peptidase inhibitor 12, PI-12, Serpin I1, SERPINI1, PI12
Calculated MW	46427
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Secreted.
Tissue Specificity	Predominantly expressed in the brain.
Source	Eukaryota
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 KAQLVEEWANSVKKQKVEVYLPRFTVEQEIDLKDV LKA 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.

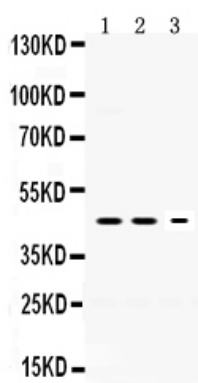
Protein Information

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).

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.

Images



Anti-Neuroserpin Picoband antibody, ABO12430, Western blotting All lanes: Anti Neuroserpin (ABO12430) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: PANC Whole Cell Lysate at 40ug Predicted bind size: 46KD Observed bind size: 46KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.