

NP1(Nptx1) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7272c

Product Information

Application	WB, IHC-P, E
Primary Accession	P47971
Other Accession	Q62443 , NP_714957
Reactivity	Human, Rat
Predicted	Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47216
Antigen Region	174-203

Additional Information

Gene ID	266777
Other Names	Neuronal pentraxin-1, NP1, 47 kDa taipoxin-binding protein, Neuronal pentraxin I, NP-I, Nptx1
Target/Specificity	This NP1(Nptx1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 174-203 amino acids from the Central region of rat NP1(Nptx1).
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NP1(Nptx1) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Nptx1
Function	May be involved in mediating uptake of synaptic material during synapse remodeling or in mediating the synaptic clustering of AMPA glutamate receptors at a subset of excitatory synapses.

Cellular Location Secreted {ECO:0000250|UniProtKB:Q15818}. Cytoplasmic vesicle, secretory vesicle. Endoplasmic reticulum

Tissue Location Cerebellum, hippocampus and cerebral cortex.

Background

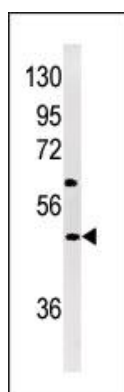
NPTX1 is a member of the neuronal pentraxin family. Human neuronal pentraxin 1 is similar to rat NP1 which is a binding protein for the snake venom toxin taipoxin.

References

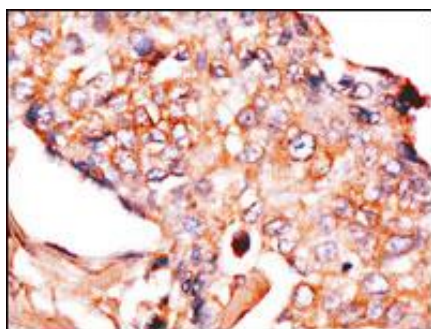
Hossain,M.A., J. Neurosci. 24 (17), 4187-4196 (2004)

Schlimgen,A.K., Neuron 14 (3), 519-526 (1995)

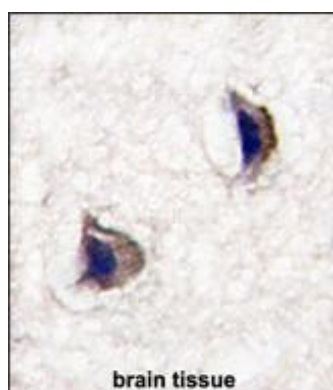
Images



Western blot analysis of anti-NP1(Nptx1) Antibody (Center) (Cat. #AP7272c) in Jurkat cell line lysates (35ug/lane). NP1(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with anti-NP1(Nptx1) Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded human brain tissue reacted with NP1(Nptx1) Antibody (Center) (Cat.#AP7272c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- [Neuronal pentraxin 1: A synaptic-derived plasma biomarker in Alzheimer's disease.](#)

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