Technical Data Sheet

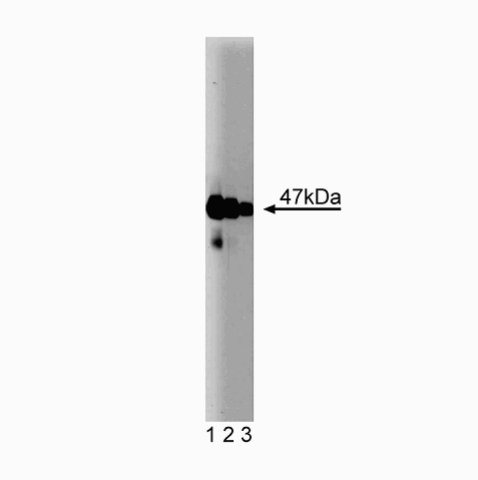
Purified Mouse Anti-Neuronal Pentraxin

Product Information

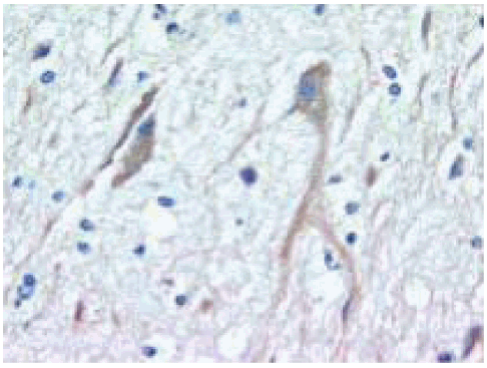
Material Number:	**610369**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	22/Neuronal Pentraxin
Immunogen:	Rat Neuronal Pentraxin aa. 137-312
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Human
Target MW:	47 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Neuronal pentraxin (NP) is a potential receptor for the snake venom toxin, taipoxin. The highest levels of *NP* mRNA are found in the cerebellum and the CA3 region of the hippocampus. More specifically, *NP* mRNA is expressed at high levels in Purkinje and granule neurons of the cerebellum and CA3 neurons of the hippocampus. Moderate levels are present in neurons of the hilus, dentate gyrus, CA1, cerebral cortex, medial habenula, anterior hypothalamic nuclei, olfactory cortex, and inferior olivary nuclei. *NP* mRNA is not expressed in glia of white or gray matter. It is thought that NP serves as a receptor for taipoxin and, after binding, NP-taipoxin is taken into presynaptic terminals. Alternatively, the binding of taipoxin by NP may represent a nonspecific mechanism to sequester toxins from synapses.



Western blot analysis of Neuronal Pentraxin on rat brain lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of Neuronal Pentraxin.*



Rat Brain

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

DeGregorio-Rocasolano N, Gasull T, Trullas R. Overexpression of neuronal pentraxin 1 is involved in neuronal death evoked by low K(+) in cerebellar granule cells. *Neuron.* 2001; 276(1):796-803.(Clone-specific: Western blot)

Schlimgen AK, Helms JA, Vogel H, Perin MS. Neuronal pentraxin, a secreted protein with homology to acute phase proteins of the immune system. *Neuron.* 1995; 14(3):519-526.(Biology)