



Rabbit Anti-NPTX2 antibody

SL11017R

Product Name:	NPTX2
Chinese Name:	神经细胞穿透素2抗体
Alias:	apexin; NARP; Neuronal pentraxin 2; Neuronal pentraxin II; Neuronal pentraxin-2; NP 2; NP-II; NP2; NP2; NP2; NPTX2; NPTX2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NPTX2:165-265/431
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Long pentraxins are a family of highly conserved proteins that are expressed in the brain and central nervous system, and form multimeric complexes. Neuronal pentraxin 1 (NP1), NP2, and neuronal pentraxin receptor (NPR) are members of the long pentraxins that represent a neuronal uptake pathway that may function during synapse formation and remodeling. The NP1 gene is located on chromosome 17q25.3 and the protein product mediates the uptake of synaptic material, including the presynaptic snake venom

toxin, taipoxin (3). NP2, whose function is unknown, is located on chromosome 7q22.1 and like NP1 contains several potential N-linked glycosylation sites. NPR is expressed on the cell membrane and can form heteropentamers with NP1 and NP2 that can be released from the cell membrane by proteolysis.

Function:

Likely to play role in the modification of cellular properties that underlie long-term plasticity. Binds to agar matrix in a calcium-dependent manner.

Subunit:

Homooligomer or heterooligomer (probably pentamer) with neuronal pentraxin receptor (NPTXR).

Subcellular Location:

Secreted.

Tissue Specificity:

Brain, pancreas, liver, heart and skeletal muscle. Highest levels are seen in the testis.

Similarity:

Contains 1 pentaxin domain.

SWISS:

P47972

Gene ID:

4885

Database links:

[Entrez Gene: 4885](#)Human

[Entrez Gene: 53324](#)Mouse

[Entrez Gene: 288475](#)Rat

[Omim: 600750](#)Human

[SwissProt: P47972](#)Human

[SwissProt: O70340](#)Mouse

[SwissProt: P97738](#)Rat

[Unigene: 3281](#)Human

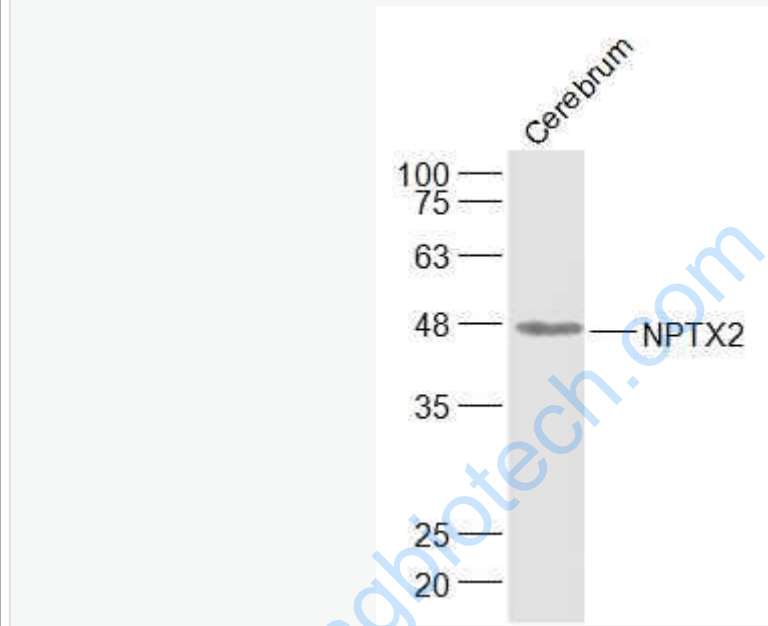
[Unigene: 10099](#)Mouse

[Unigene: 162101](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

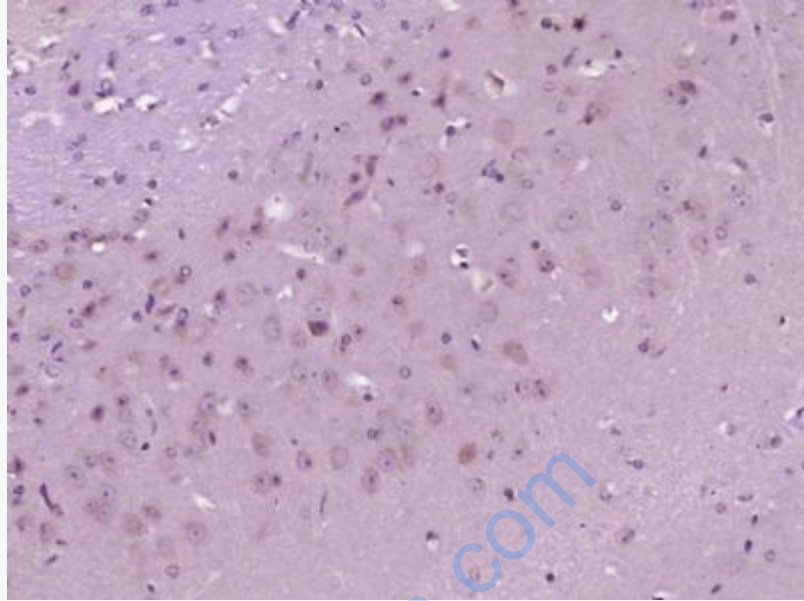
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-NPTX2 (SL11017R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 46 kD

Observed band size: 46 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NPTX2) Polyclonal Antibody, Unconjugated (SL11017R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.