

Rabbit NPTX2 Polyclonal Antibody | anti-NPTX2 antibody

NPTX2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10933	Rabbit	Human, Mouse, Rat	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

NPTX2; Polyclonal Antibody; NPTX2 Antibody; NP2; NARP; NP-II; Neuronal pentraxin-2; Neuronal pentraxin II; neuronal pentraxin II; anti-NPTX2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	NPTX2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; NPTX2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	431
Applicable Applications for anti-NPTX2 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	WB: 0.5-4 ug/mL IHC: 5 ug/mL IF: 20 ug/mL Antibody validated: Western Blot in human, mouse and rat samples;Immunohistochemistry in human and mouse samples; Immunofluorescence in humanand mouse samples. All other applications and species not yet tested.
Conjugate	Unconjugated
Immunogen	NPTX2 antibody was raised against a 16 amino acid synthetic peptide near the center of the human NPTX2. The immunogen is located within amino acids 170-220 of NPTX2.
Homology	Predicted species reactivity based on immunogen sequence: Guinea pig: (88%)
Validation	Independent Antibody Validation in Cell lines shows similar NPTX2expression profile in human and mouse cell lines detected by two independent anti-NPTX2 antibodies that recognize different epitopes, AAA10933 against central domain. NPTX2 proteins are detected only in HeLa and HepG2 cell lines by the two independent antibodies.
Isoforms	Human NPTX2 has one isoform (431aa, 47kD). Mouse NPTX2 has one isoform (429aa,47.1kD) and Rat NPTX2 also has one isoform (432aa, 47.4kD). 4573 can detect human,mouse and rat
Preparation and Storage	Antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IF (Immunofluorescence)
Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling NPTX2 with AAA10933 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



WB (Western Blot)
Loading: 15 ug of lysates per lane. Antibodies: NPTX2 AAA10933(1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. A: Absence of blocking peptide B: Presence of blocking peptide.



Application Data
Loading: 15 ug of lysates per lane. Antibodies: NPTX2 AAA10933(2 ug/mL) and beta-actin (1ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



IF (Immunofluorescence)
Immunofluorescence of NPTX2 in mouse brain tissue with NPTX2 antibody at 20 ug/mL. Red: NPTX2 Antibody (4573) Blue: DAPI staining



WB (Western Blot)
Western blot analysis of NPTX2 expression in mouse brain tissue lysate with NPTX2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-NPTX2 antibody (AAA10933) at 5ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-NPTX2 antibody	NPTX2 Antibody: Neuronal pentraxin (NPTX) 2 was initially identified as a member of the pentraxin family having high homology to NPTX1. Unlike NPTX1 however, NPTX2 is expressed in testes, pancreas, liver, heart, skeletal muscle as well as brain. NPTX2 possesses the lectin properties common to the pentraxin family, promotes neurite outgrowth, and is rapidly regulated by neuronal activity. NPTX1 and NPTX2 form heterocomplexes that contribute to both activity-independent and -dependent excitatory synaptogenesis. Recently, NPTX2 has been found to be highly upregulated in Parkinsonian substantia nigra and localizes to Lewy bodies and Lewy neurites in sporadic Parkinson's disease (PD), suggesting that it is involved in the pathway dysregulation that underlies PD. This NPTX2 antibody is predicted to be specific to NPTX2 and not recognize NPTX1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28195384
NCBI GeneID	4885
NCBI Accession #	NP_002514
NCBI GenBank Nucleotide #	NM_002523.2
UniProt Accession #	P47972; Q86XV7; Q96G70; A4D267
Molecular Weight	Predicted MW: 47 KD Observed MW: 47 KD
NCBI Official Full Name	neuronal pentraxin-2
NCBI Official Synonym Full Names	neuronal pentraxin II
NCBI Official Symbol	NPTX2
NCBI Official Synonym Symbols	NP2; NARP; NP-II

NCBI Protein Information	neuronal pentraxin-2; apexin; neuronal activity-regulated pentaxin
UniProt Protein Name	Neuronal pentraxin-2
UniProt Gene Name	NPTX2
UniProt Synonym Gene Names	NP2; NP-II
UniProt Entry Name	NPTX2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nptx2-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/10933>