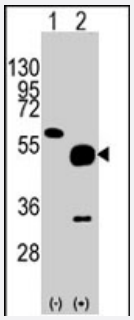
NPTX2 polyclonal antibody

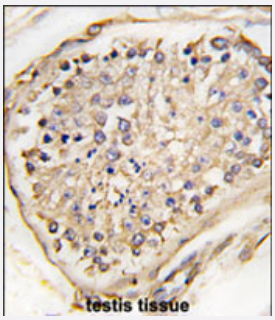
Catalog # PAB2556 Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of NPTX2 (arrow) using rabbit NPTX2 polyclonal antibody (Cat # PAB2556). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the NPTX2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human testis tissue reacted with NPTX2 polyclonal antibody (Cat # PAB2556) , 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NPTX2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human NPTX2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — NPTX2

Entrez GeneID	4885
Protein Accession#	NP_002514;P47972
Gene Name	NPTX2
Gene Alias	NARP, NP-II, NP2
Gene Description	neuronal pentraxin II
Omim ID	600750
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the family of neuronal petraxins, synaptic proteins that are relate d to C-reactive protein. This protein is involved in excitatory synapse formation. It also plays a role in clustering of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)-type glutamat e receptors at established synapses, resulting in non-apoptotic cell death of dopaminergic nerve cells. Up-regulation of this gene in Parkinson disease (PD) tissues suggests that the protein may be involved in the pathology of PD. [provided by RefSeq

Other Designations	apexin|neuronal activity-regulated pentaxin|pentraxin II

Publication Reference

- Quantitative analysis of NPTX2 hypermethylation is a promising molecular diagnostic marker for pancreatic cancer.

  Park JK, Ryu JK, Lee KH, Lee JK, Yoon WJ, Lee SH, Yoo JW, Woo SM, Lee GY, Lee CH, Kim YT, Yoon YB.

  Pancreas 2007 Oct; 35(3):e9.

- No association between the neuronal pentraxin II gene polymorphism and autism.

  Marui T, Koishi S, Funatogawa I, Yamamoto K, Matsumoto H, Hashimoto O, Ishijima M, Nanba E, Nishida H, Sugiyama T, Kasai K, Watanabe K, Kano Y, Kato N, Sasaki T.

  Progress in Neuro-Psychopharmacology & Biological Psychiatry 2007 May; 31(4):940.

- Biochemical interactions of the neuronal pentraxins. Neuronal pentraxin (NP) receptor binds to taipoxin and taipoxin-associated calcium-binding protein 49 via NP1 and NP2.

  Kirkpatrick LL, Matzuk MM, Dodds DC, Perin MS.

  The Journal of Biological Chemistry 2000 Jun; 275(23):17786.

  Application: IS, WB-Ce, WB-Tr, Mouse, Rat, CHO cells, Hippocampal neurons

Disease

- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Genetic Predisposition to Disease
- NARP