

For Research Use Only

NPTX2 Polyclonal antibody

Catalog Number: 10889-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

10889-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1326

GenBank Accession Number:

BC009924

GeneID (NCBI):

4885

UNIPROT ID:

P47972

Full Name:

neuronal pentraxin II

Calculated MW:

47 kDa

Observed MW:

47-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:6000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, SH-SY5Y cells, PC-3 cells, rat brain tissue

IP : mouse brain tissue,

IHC : human brain tissue, human pancreas cancer tissue, rat brain tissue

IF/ICC : SH-SY5Y cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Neuronal pentraxins constitute a family of proteins that are homologous to C-reactive protein (CRP) and serum amyloid P component (SAP), including NPTX1, NPTX2, and the neuronal pentraxin receptor (NPTXR). NPTX2, also known as NARP (neuronal activity-regulated pentaxin), is a secreted protein involved in excitatory synapse formation. It also plays a role in the clustering of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA)-type glutamate receptors at established synapses, resulting in non-apoptotic cell death of dopaminergic nerve cells. NPTX2 is highly up-regulated in Parkinson's disease (PD), suggesting it may be involved in the pathology of PD. (PMID: 12895424; 17987278; 10748068)

Notable Publications

Author	Pubmed ID	Journal	Application
Long Pei	34565284	Bioengineered	WB
Xu-Qiao Chen	36370135	Alzheimers Dement	WB
Simon Chang	29844474	Neuropsychopharmacology	IHC,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

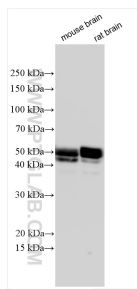
T: 4006900926

E: Proteintech-CN@ptglab.com

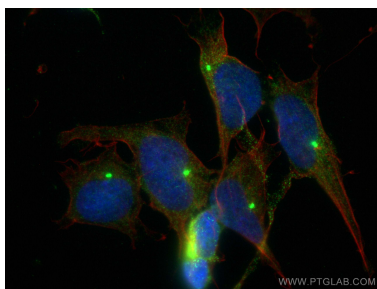
W: ptgcn.com

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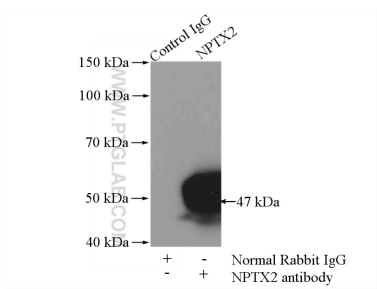
Selected Validation Data



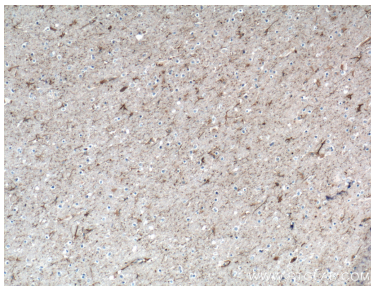
Various lysates were subjected to SDS PAGE followed by western blot with 10889-1-AP (NPTX2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



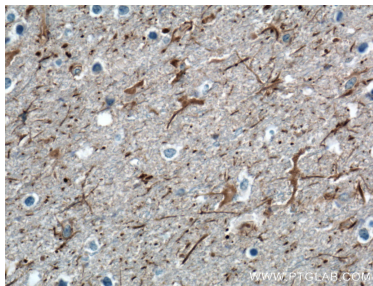
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using NPTX2 antibody (10889-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



IP result of anti-NPTX2 (IP:10889-1-AP, 4ug; Detection:10889-1-AP 1:600) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10889-1-AP (NPTX2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10889-1-AP (NPTX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).