

**NPTX1-Y344 Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7272d**

**Specification**

---

**NPTX1-Y344 Antibody - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q15818</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	322-350

**NPTX1-Y344 Antibody - Additional Information**

**Gene ID** 4884

**Other Names**

Neuronal pentraxin-1, NP1, Neuronal pentraxin I, NP-I, NPTX1

**Target/Specificity**

This NPTX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 322-350 amino acids from human NPTX1.

**Dilution**

WB~~1:2000

IHC-P~~1:25

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NPTX1-Y344 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**NPTX1-Y344 Antibody - Protein Information**

**Name** NPTX1

**Function** May be involved in mediating uptake of synaptic material during synapse remodeling or in mediating the synaptic clustering of AMPA glutamate receptors at a subset of excitatory

synapses.

#### Cellular Location

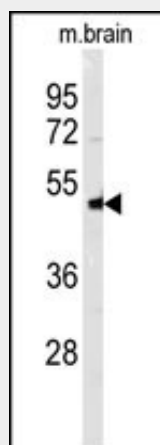
Secreted. Cytoplasmic vesicle, secretory vesicle {ECO:0000269|PubMed:34788392, ECO:0000305}. Endoplasmic reticulum {ECO:0000269|PubMed:34788392, ECO:0000305}

#### NPTX1-Y344 Antibody - Protocols

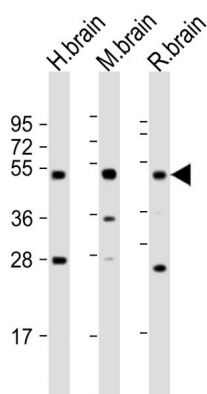
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

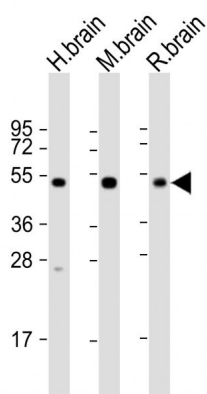
#### NPTX1-Y344 Antibody - Images



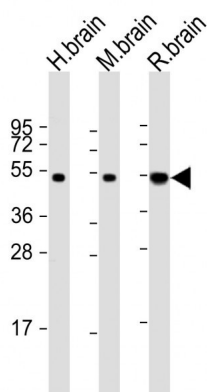
Western blot analysis of NPTX1-Y344 (Cat. #AP7272d) in mouse brain tissue lysates (35ug/lane). NPTX1 (arrow) was detected using the purified Pab.



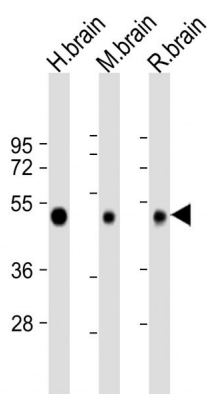
All lanes : Anti-NPTX1Y344 Antibody at 1:2000 dilution Lane 1: human brain lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



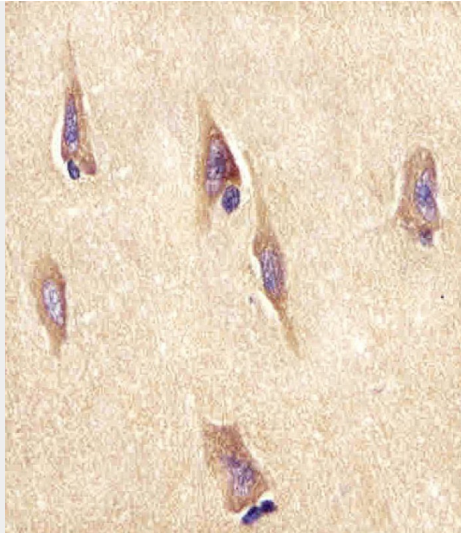
All lanes : Anti-NPTX1-Y344 Antibody at 1:2000 dilution Lane 1: human brain lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



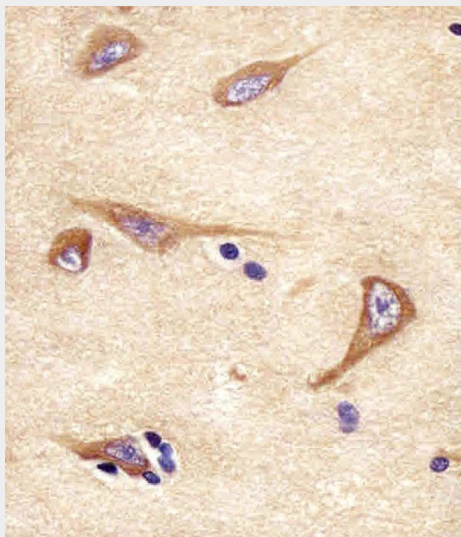
All lanes : Anti-NPTX1-Y344 Antibody at 1:2000 dilution Lane 1: human brain lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-NPTX1-Y344 Antibody at 1:2000 dilution Lane 1: human brain lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP7272d staining NPTX1 in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AP7272d staining NPTX1 in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **NPTX1-Y344 Antibody - Background**

NPTX1 is a member of the neuronal pentraxin family. Human neuronal pentraxin 1 is similar to rat NP1 which is a binding protein for the snake venom toxin taipoxin.

#### **NPTX1-Y344 Antibody - References**

Hossain, M.A., J. Neurosci. 24 (17), 4187-4196 (2004)  
Schlimgen, A.K., Neuron 14 (3), 519-526 (1995)