

**PTPRZ1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21103a**

**Specification**

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**PTPRZ1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P23471</a>
Other Accession	<a href="#">Q62656</a>
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	254587

**PTPRZ1 Antibody (N-term) - Additional Information**

**Gene ID** 5803

**Other Names**

Receptor-type tyrosine-protein phosphatase zeta, R-PTP-zeta, Protein-tyrosine phosphatase receptor type Z polypeptide 1, Protein-tyrosine phosphatase receptor type Z polypeptide 2, R-PTP-zeta-2, PTPRZ1, HTPZP2, PTPRZ, PTPRZ2, PTPZ

**Target/Specificity**

This PTPRZ1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 446-480 amino acids from the N-terminal region of human PTPRZ1.

**Dilution**

WB~~1:1000

**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**

PTPRZ1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PTPRZ1 Antibody (N-term) - Protein Information**

**Name** PTPRZ1

**Synonyms** HTPZP2, PTPRZ, PTPRZ2, PTPZ

**Function** Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligodendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades (By similarity).

**Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Secreted. Note=A secreted form is apparently generated by shedding of the extracellular domain

**Tissue Location**

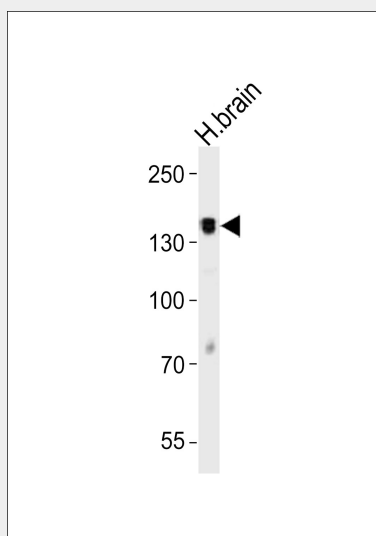
Specifically expressed in the central nervous system, where it is localized in the Purkinje cell layer of the cerebellum, the dentate gyrus, and the subependymal layer of the anterior horn of the lateral ventricle. Developmentally regulated in the brain.

**PTPRZ1 Antibody (N-term) - 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](#)

**PTPRZ1 Antibody (N-term) - Images**



Western blot analysis of lysate from human brain tissue lysate, using PTPRZ1 Antibody (N-term)(Cat. #AP21103a). AP21103a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

**PTPRZ1 Antibody (N-term) - Background**

Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligodendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades (By similarity).

**PTPRZ1 Antibody (N-term) - References**

Krueger N.X., et al. Proc. Natl. Acad. Sci. U.S.A. 89:7417-7421(1992).  
Levy J.B., et al. J. Biol. Chem. 268:10573-10581(1993).  
Hillier L.W., et al. Nature 424:157-164(2003).  
Scherer S.W., et al. Science 300:767-772(2003).  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.