

**PTPRD Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9589A**

### Specification

#### PTPRD Antibody (N-term) - Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB,E                   |
| Primary Accession | <a href="#">P23468</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Antigen Region    | 343-371                |

#### PTPRD Antibody (N-term) - Additional Information

##### Gene ID 5789

##### Other Names

Receptor-type tyrosine-protein phosphatase delta, Protein-tyrosine phosphatase delta, R-PTP-delta, PTPRD

##### Target/Specificity

This PTPRD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 343-371 amino acids from the N-terminal region of human PTPRD.

##### Dilution

WB~~1:1000

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

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

#### PTPRD Antibody (N-term) - Protein Information

##### Name PTPRD

**Function** Can bidirectionally induce pre- and post-synaptic differentiation of neurons by mediating interaction with IL1RAP and IL1RAPL1 trans-synaptically. Involved in pre-synaptic differentiation

through interaction with SLTRK2.

#### Cellular Location

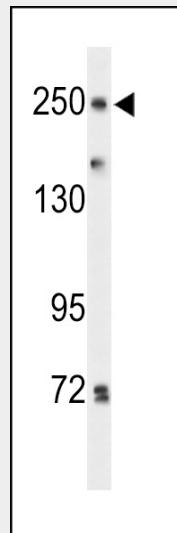
Membrane; Single-pass type I membrane protein.

#### PTPRD 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](#)

#### PTPRD Antibody (N-term) - Images



Western blot analysis of PTPRD Antibody (N-term) (Cat. #AP9589a) in HeLa cell line lysates (35ug/lane). PTPRD (arrow) was detected using the purified Pab.

#### PTPRD Antibody (N-term) - Background

PTPRD is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of three Ig-like and eight fibronectin type III-like domains. Studies of the similar genes in chicken and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance.

#### PTPRD Antibody (N-term) - References

?Wallace, M.J., et al. Mol. Cell. Biol. 18(5):2608-2616(1998)  
?Pulido, R., et al. Proc. Natl. Acad. Sci. U.S.A. 92(25):11686-11690(1995)

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?Krueger, N.X., et al. EMBO J. 9(10):3241-3252(1990)