

**PTPdelta Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8415a**

**Specification**

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**PTPdelta Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [P23468](#)

**PTPdelta Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 5789

**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8415a](/product/products/AP8415a) was selected from the C-term region of human PTPdelta . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PTPdelta Antibody (C-term) Blocking Peptide - 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 SLITRK2.

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**PTPdelta Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **PTPdelta Antibody (C-term) Blocking Peptide - Images**

#### **PTPdelta Antibody (C-term) Blocking Peptide - Background**

PTPdelta 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, 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 chick and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance.

#### **PTPdelta Antibody (C-term) Blocking Peptide - References**

Blanchetot, C., et al., J. Biol. Chem. 277(49):47263-47269 (2002). Pulido, R., et al., Proc. Natl. Acad. Sci. U.S.A. 92(25):11686-11690 (1995). Pulido, R., et al., J. Biol. Chem. 270(12):6722-6728 (1995). Krueger, N.X., et al., EMBO J. 9(10):3241-3252 (1990).