

**PTPD1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8424a****Specification**

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**PTPD1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q16825](#)**PTPD1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 11099**Other Names**

Tyrosine-protein phosphatase non-receptor type 21, Protein-tyrosine phosphatase D1, PTPN21, PTPD1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8424a](/product/products/AP8424a) was selected from the Center region of human PTPD1 . 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.

**PTPD1 Antibody (Center) Blocking Peptide - Protein Information****Name** PTPN21**Synonyms** PTPD1**Cellular Location**

Cytoplasm, cytoskeleton.

**PTPD1 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PTPD1 Antibody (Center) Blocking Peptide - Images****PTPD1 Antibody (Center) Blocking Peptide - Background**

PTPD1 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 N-terminal domain, similar to cytoskeletal-associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis.

**PTPD1 Antibody (Center) Blocking Peptide - References**

Jui, H.Y., et al., J. Biol. Chem. 275(52):41124-41132 (2000). Tokuchi, H., et al., Int J Urol 6(11):572-577 (1999). Higashitsuji, H., et al., Oncogene 10(2):407-414 (1995). Moller, N.P., et al., Proc. Natl. Acad. Sci. U.S.A. 91(16):7477-7481 (1994).