

PTPH1 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP8426a

Specification

PTPH1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

PTPH1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5774

Other Names

Tyrosine-protein phosphatase non-receptor type 3, Protein-tyrosine phosphatase H1, PTP-H1, PTPN3, PTPH1

P26045

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8426a was selected from the Center region of human PTPH1 . 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.

PTPH1 Antibody (Center) Blocking Peptide - Protein Information

Name PTPN3

Synonyms PTPH1

Function

May act at junctions between the membrane and the cytoskeleton. Possesses tyrosine phosphatase activity.

Cellular Location

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton

PTPH1 Antibody (Center) Blocking Peptide - Protocols



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

• Blocking Peptides

PTPH1 Antibody (Center) Blocking Peptide - Images

PTPH1 Antibody (Center) Blocking Peptide - Background

Phosphorylation of receptors by protein kinases is a process that can be reversed by a group of enzymes called protein phosphatases. Coordinated control of kinases and phosphatases provides the cell with the capacity to rapidly switch between phosphorylated and dephosphorylated protein states in dynamic response to environmental stimuli. Activation of critical enzymes by kinase phosphorylation alone is not enough to provide adequate regulation? it is the combination with phosphatase dephosphorylation that effectively creates on/off switches to control cellular events. Errors in control, either through kinases or their counterpart phosphatases, can lead to unchecked cell growth attributable to human cancers and developmental disorders. Potential mechanisms to control dephosphorylation include changes in the expression of protein phosphatases, their subcellular localization, phosphorylation of phosphatase catalytic and regulatory subunits and regulation by endogenous phosphatase inhibitors. Most protein phosphatases are not stringently specific for their substrates. Consequently, changes in phosphatase activity may have a broad impact on dephosphorylation and turnover of phosphoproteins that are substrates for different kinases. This may be an important point of control to connect cellular circuitry of interrelated signaling pathways, and to synchronize physiological responses.

PTPH1 Antibody (Center) Blocking Peptide - References

Ikuta, S., et al., J. Gastroenterol. 29(6):727-732 (1994). Arimura, Y., et al., Tumour Biol. 13(3):180-186 (1992). Yang, Q., et al., Proc. Natl. Acad. Sci. U.S.A. 88(14):5949-5953 (1991).