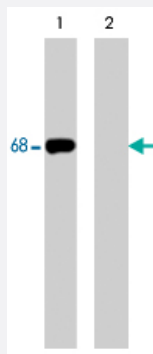


PTPN6 (phospho S591) polyclonal antibody

Catalog # PAB7927

Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of human Jurkat cells treated with pervanadate (1 mM) for 30 min (lanes 1 & 2). The blot was exposed to lambda phosphatase (lane 2) and then probed with PTPN6 (phospho S591) polyclonal antibody (Cat # PAB7927).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PTPN6.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S591 of human PTPN6.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	The sequence is highly conserved in rat and mouse SHP1.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of human Jurkat cells treated with pervanadate (1 mM) for 30 min (lanes 1 & 2). The blot was exposed to lambda phosphatase (lane 2) and then probed with PTPN6 (phospho S591) polyclonal antibody (Cat # PAB7927).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPN6

Entrez GeneID [5777](#)

Gene Name PTPN6

Gene Alias HCP, HCPH, HPTP1C, PTP-1C, SH-PTP1, SHP-1, SHP-1L, SHP1

Gene Description protein tyrosine phosphatase, non-receptor type 6

Omim ID [176883](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene 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. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq]

Other Designations hematopoietic cell phosphatase|hematopoietic cell protein-tyrosine phosphatase|protein-tyrosine phosphatase 1C

Publication Reference

- [Activation of Cdk2 stimulates proteasome-dependent truncation of tyrosine phosphatase SHP-1 in human proliferating intestinal epithelial cells.](#)

Simoneau M, Boulanger J, Coulombe G, Renaud MA, Duchesne C, Rivard N.

The Journal of Biological Chemistry 2008 Sep; 283(37):25544.

Application: WB, Human, HEK 293 cells

- [Regulation of SHP-1 tyrosine phosphatase in human platelets by serine phosphorylation at its C terminus.](#)

Jones ML, Craik JD, Gibbins JM, Poole AW.

The Journal of Biological Chemistry 2004 Sep; 279(39):40475.

- [The role of C-terminal tyrosine phosphorylation in the regulation of SHP-1 explored via expressed protein ligation.](#)

Zhang Z, Shen K, Lu W, Cole PA.

The Journal of Biological Chemistry 2003 Feb; 278(7):4668.

Pathway

- [Adherens junction](#)
- [B cell receptor signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cerebral Amyloid Angiopathy](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Neuroblastoma](#)