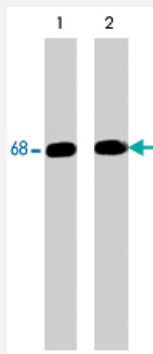


PTPN6 monoclonal antibody, clone M160

Catalog # MAB1379

Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of human Jurkat cells treated with pervanadate (1 mM) for 30 min (lane 1 & 2). The blot was exposed to lambda phosphatase (lane 2) then probed with PTPN6 monoclonal antibody, clone M160 (Cat # MAB1379).

Specification

Product Description Mouse monoclonal antibody raised against partial recombinant PTPN6.

Immunogen Recombinant protein corresponding to C-terminus of human PTPN6.

Host Mouse

Reactivity Human, Mouse, Rat

Specificity This sequence is highly conserved in rat and mouse SHP1.

Form Liquid

Isotype IgG1

Quality Control Testing Antibody Reactive Against Recombinant Protein.

Recommend Usage

- ELISA (1:2000)
- Immunocytochemistry (1:100)
- Immunoprecipitation (5-10 ul)
- 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 (lane 1 & 2). The blot was exposed to lambda phosphatase (lane 2) then probed with PTPN6 monoclonal antibody, clone M160 (Cat # MAB1379).

- Immunocytochemistry

- Immunoprecipitation

- 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

- [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.

Application: IF, IP, WB, Human, Human platelets

- [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.

- [Roles of the SHP-1 tyrosine phosphatase in the negative regulation of cell signalling.](#)

Zhang J, Somani AK, Siminovitch KA.

Seminars in Immunology 2000 Aug; 12(4):361.

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](#)