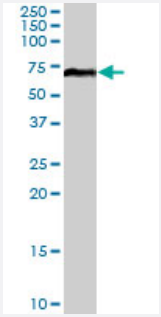
PTPN6 polyclonal antibody

Catalog # PAB7248 Size 100 ug

Applications



Western Blot (Tissue lysate)

PTPN6 polyclonal antibody (Cat # PAB7248) (0.1 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of PTPN6.
Immunogen	A synthetic peptide corresponding to human PTPN6.
Sequence	C-KASRTSSKHKEE
Host	Goat
Theoretical MW (kDa)	67.6, 67.7
Reactivity	Human, Mouse, Rat
Specificity	This antibody is expected to recognize both reported isoforms (NP_536858.1and NP_002822.2). Pl ease note this antibody was designed using the mouse sequence, which differs by 1 amino acid fro m the human sequence.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:128000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% 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 shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPN6

Entrez GeneID	5777
Protein Accession#	NP_536858.1;NP_002822.2
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 c ell 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 prim arily 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 sp ectrum 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

- The SHP-1 protein tyrosine phosphatase negatively modulates glucose homeostasis.

  Dubois MJ, Bergeron S, Kim HJ, Dombrowski L, Perreault M, Fournes B, Faure R, Olivier M, Beauchemin N, Shulman GI, Siminovitch KA, Kim JK, Marette A.

  Nature Medicine 2006 May; 12(5):549.

  Application: IF, IHC-Fr, IP, WB-Ti, Mouse, Mouse liver, muscle

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