



SHP-1 mouse mAb

Catalog No	YP-Ab-14236
Isotype	IgG
Reactivity	Human
Applications	WB;IP
Gene Name	ptpn6
Immunogen	Purified recombinant human SHP-1 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of SHP-1 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb dilution 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PTPN6;SHP1;EC:3.1.3.48;HCP;HCPH;SHP-1;70 kda SHP1L protein;70Z-SHP; EC 3.1.3.48;Hematopoietic cell phosphatase;Hematopoietic cell protein tyrosine phosphatase;Hematopoietic cell protein-tyrosine phosphatase;HPTP1C;Protein tyrosine phosphatase 1C;Protein tyrosine phosphatase non receptor type 6; Protein tyrosine phosphatase SHP1;Protein-tyrosine phosphatase 1C;protein-tyrosine phosphatase SHP 1;Protein-tyrosine phosphatase SHP-1; PTN6_HUMAN;PTP 1C;PTP-1C;PTP1C;SH PTP 1;SH PTP1;SH-PTP1;SHP 1; SHP 1L;SHP1L;tyrosine protein phosphatase non receptor type 6;Tyrosine-protein phosphatase non-receptor type 6.
Observed Band	68kD
Calculated Molecular Weight	68kD
Cell Pathway	Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II (By similarity). Shuttles between the cytoplasm and nucleus via its association with PDPK1. .
Tissue Specificity	Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.



Function

catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,function:Plays a key role in hematopoiesis. This PTPase activity may directly link growth factor receptors and other signaling proteins through protein-tyrosine phosphorylation. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation.,PTM:Phosphorylated on serine and tyrosine residues.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.,similarity:Contains 1 tyrosine-protein phosphatase domain.,similarity:Contains 2 SH2 domains.,subcellular location:In neurons, translocates into the nucleus after treatment with angiotensin II.,subunit:Monomer. Interacts with MTUS1 (By similarity). Binds PTPNS1, LILRB1 and LI

Background

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, Jul

matters needing attention

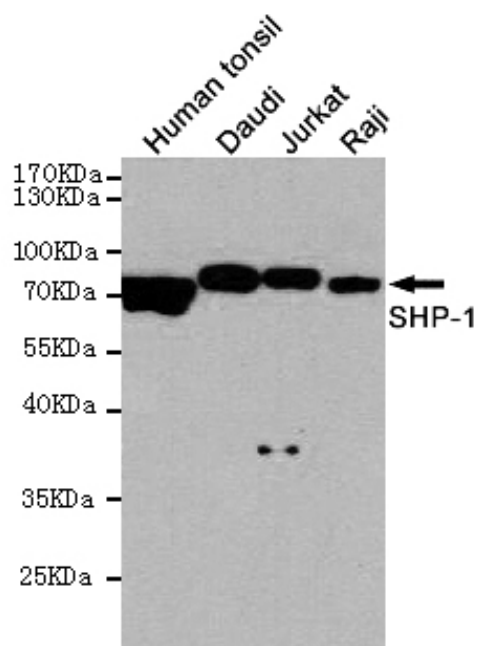
Avoid repeated freezing and thawing!

Usage suggestions

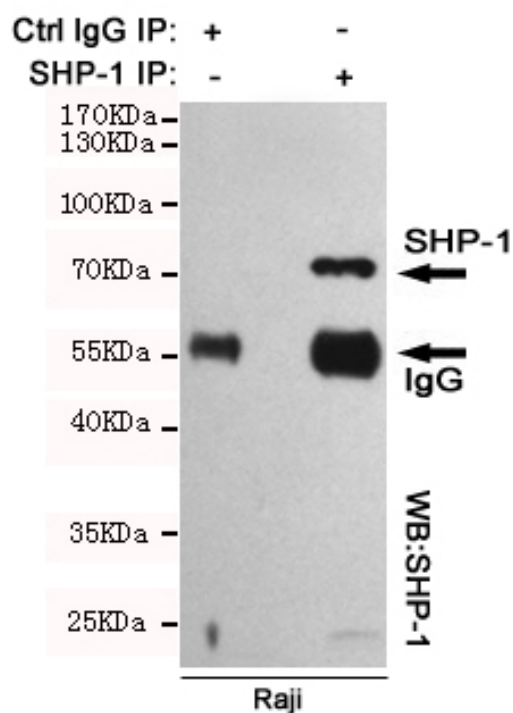
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western blot detection of SHP-1 in Human tonsil, Daudi, Jurkat and Raji cell lysates using SHP-1 mouse mAb (1:1000 diluted). Predicted band size: 67KDa. Observed band size: 67KDa.



Immunoprecipitation analysis of Raji cell lysates using SHP-1 mouse mAb.