

Product Name: SH-PTP1 (phospho Tyr536) Rabbit Polyclonal Antibody Catalog #: APRab05425

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationWB,IHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000

Molecular Weight 67kDa

Antigen Information

Gene Name PTPN6

PTPN6; HCP; PTP1C; Tyrosine-protein phosphatase non-receptor type 6; Hematopoietic cell

Alternative Names protein-tyrosine phosphatase; Protein-tyrosine phosphatase 1C; PTP-1C; Protein-tyrosine

phosphatase SHP-1; SH-PTP1

 Gene ID
 5777.0

 SwissProt ID
 P29350

The antiserum was produced against synthesized peptide derived from human SHP-1 Immunogen

around the phosphorylation site of Tyr536. AA range:502-551

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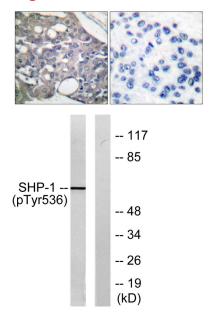
Background

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 phosphotyrosine 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, Julcatalytic 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 proteintyrosine 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 LILRB2. Interacts with FCRL2, FCRL3, FCRL4, CD300LF and CD84, tissue specificity: Isoform 1 is expressed in hematopoietic cells while isoform 2 is expressed in non-hematopoietic cells.,

Research Area

B_Cell_Antigen; Adherens_Junction; T_Cell_Receptor; MAPK; Protein_Acetylation

Image Data

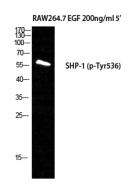


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SHP-1 (Phospho-Tyr536) Antibody. The picture on the right is blocked with the phospho peptide.

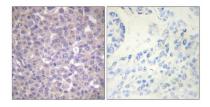
Western blot analysis of lysates from RAW264.7 cells treated with EGF 200ng/ml 5 ', using SHP-1 (Phospho-Tyr536) Antibody. The lane on the right is blocked with the phospho peptide.

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Western Blot analysis of RAW264.7+EGF cells using Phospho-SH-PTP1 (Y536) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.