

Rabbit SHP-1 Polyclonal Antibody | anti-SHP-1 antibody

Phospho-SHP-1 (Ser534) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328439	Rabbit	Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SHP-1; Polyclonal Antibody; Phospho-SHP-1 (Ser534) Antibody; 70Z-SHP; EC 3.1.3.48; HCP; HCPH; 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; Ptpn6; SH PTP 1; SH PTP1; SH-PTP1; SHP 1; SHP 1L; SHP1; SHP1L; tyrosine protein phosphatase non receptor type 6; Tyrosine-protein phosphatase non-receptor type 6; anti-SHP-1 antibody

PRODUCT SPECIFICATIONS

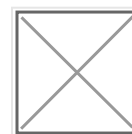
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-SHP-1 (Ser534) Antibody detects endogenous levels of SHP-1 only when phosphorylated at Ser534.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	595
Applicable Applications for anti-SHP-1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SHP-1 around the phosphorylation site of Ser534.
Tissue Specificity	Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-SHP-1 (Ser534) in lysates of RAW264.7, using Phospho-SHP-1 (Ser534) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining mouse heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-SHP-1 antibody

Description: Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. 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. Plays a key role in hematopoiesis.

Post Translational Modifications: Phosphorylated on tyrosine residues. Binding of KITLG/SCF to KIT increases tyrosine phosphorylation (By similarity). Phosphorylation at Tyr-564 enhances phosphatase activity.

Subunit Structure: Monomer. Interacts with MTUS1 (By similarity). Interacts with MILR1 (tyrosine-phosphorylated) (By similarity). Interacts with KIT (By similarity). Interacts with SIRPA/PTPNS1 (PubMed:9712903). Interacts with LILRB1 and LILRB2 (PubMed:9285411, PubMed:9842885). Interacts with FCRL2 and FCRL4 (PubMed:11162587, PubMed:14597715). Interacts with FCRL3 and FCRL6 (tyrosine phosphorylated form) (PubMed:20933011, PubMed:11162587, PubMed:19843936). Interacts with CD84 (PubMed:11414741). Interacts with CD300LF (PubMed:15184070). Interacts with CDK2 (PubMed:21262353). Interacts with KIR2DL1; the interaction is enhanced by ARRB2 (PubMed:18604210). Interacts (via SH2 1 domain) with ROS1; the interaction is direct and promotes ROS1 dephosphorylation (PubMed:11266449). Interacts with EGFR; inhibits EGFR-dependent activation of MAPK/ERK (PubMed:21258366). Interacts with LYN (PubMed:10574931). Interacts with the tyrosine phosphorylated form of PDPK1 (PubMed:19591923). Interacts with CEACAM1 (via cytoplasmic domain); this interaction depends on the monomer/dimer equilibrium and is phosphorylation-dependent (By similarity). Interacts with MPTG6B (via ITIM motif) (PubMed:23112346).

Similarity: The N-terminal SH2 domain functions as an auto-inhibitory domain, blocking the catalytic domain in the ligand-free close conformation. Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18104989
NCBI GeneID	5777
NCBI Accession #	NP_002822.2
NCBI GenBank Nucleotide #	NP_002822.2
UniProt Accession #	P29350
Molecular Weight	Observed: 67 kDa Predicted: 68 kDa
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 6 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase non-receptor type 6
NCBI Official Symbol	PTPN6
NCBI Official Synonym Symbols	HCP; HCPH; SHP1; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 6
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 6
UniProt Gene Name	PTPN6

UniProt Synonym Gene Names	HCP; PTP1C; PTP-1C
UniProt Entry Name	PTN6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/shp-1-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328439>