

## Rabbit anti-Human, Mouse SHP-1 Polyclonal Antibody | anti-SHP-1 antibody

Phospho-SHP-1 (Tyr564) Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                       |
|-----------|--------|--------------|------------------------------------|
| AAA321390 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot |

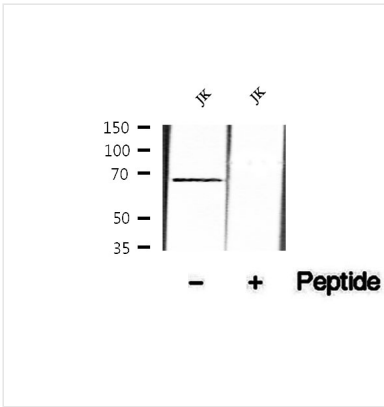
### PRODUCT SYNONYMS

SHP-1; Polyclonal Antibody; Phospho-SHP-1 (Tyr564) 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

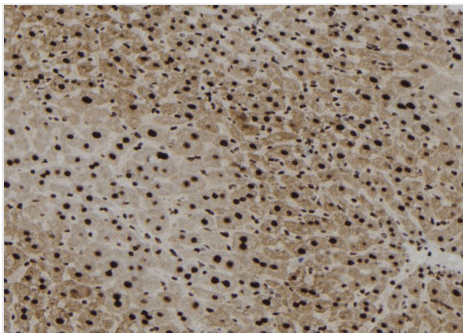
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                 |
| Reactivity                                      | Human, Mouse                                                                                                                           |
| Clonality                                       | Polyclonal                                                                                                                             |
| Isotype                                         | IgG                                                                                                                                    |
| Specificity                                     | Phospho-SHP-1 (Tyr564) antibody detects endogenous levels of SHP-1.                                                                    |
| Purity/Purification                             | From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns. |
| Form/Format                                     | Liquid<br>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 | IHC (Immunohistochemistry), WB (Western Blot)                                                                                          |
| Immunogen                                       | A synthesized peptide derived from human SHP-1 around the phosphorylation site of Tyr564.                                              |
| Subcellular Location                            | Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II.                                     |
| Tissue Specificity                              | Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.                                      |
| Predicted Cross Reactivity                      | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Dog</b>                                                                                       |
| Similarity                                      | Pig (82%), Zebrafish (100%), Bovine (80%), Horse (91%), Sheep (82%), Dog (82%)                                                         |
| Conjugation                                     | Unconjugated                                                                                                                           |
| Epitope                                         | Phospho Tyr564                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                      |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts of JK cells, using Phospho-SHP-1 (Tyr564) Antibody.



**IHC (Immunohistochemistry)**  
AAA321390 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SHP-1 antibody</b> | <p>Function: 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.</p> <p>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 MPIG6B (via ITIM motif) (PubMed:23112346).</p> <p>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.</p> <p>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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| NCBI GI #                        | 18104989                                                   |
| NCBI GeneID                      | 5777                                                       |
| NCBI Accession #                 | NP_002822.2                                                |
| NCBI GenBank Nucleotide #        | NM_002831.5                                                |
| UniProt Accession #              | P29350; Q969V8; Q9UK67; A8K306; G3V0F8                     |
| Molecular Weight                 | Observed: 68 kDa<br>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          | <b>PTPN6</b>                                     |
| UniProt Synonym Gene Names | HCP; PTP1C; PTP-1C                               |

**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-immunohistochemistry-western-blot-elisa/321390>