

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

SHP-1 (Ab-564) Antibody

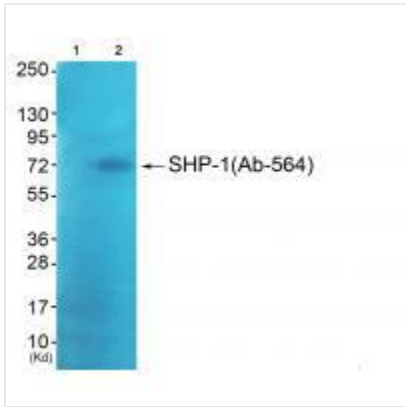
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS |
|-----------|--------|------------|--------------|
| AAA303971 | Rabbit | Human      | Western Blot |

### PRODUCT SYNONYMS

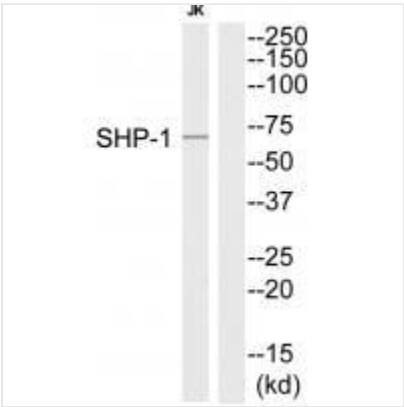
SHP-1; Polyclonal Antibody; SHP-1 (Ab-564) Antibody; HCP; HCPH; hematopoietic cell phosphatase; Hematopoietic cell protein-tyrosine phosphatase; HPTP1C; anti-SHP-1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                             |
| Reactivity                                      | Human                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                         |
| Specificity                                     | The antibody detects endogenous levels of total SHP-1 protein.                                                                                     |
| Purity/Purification                             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                              |
| Form/Format                                     | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1.0 mg/ml (varies by lot)                                                                                                                          |
| Sequence Length                                 | 802                                                                                                                                                |
| Applicable Applications for anti-SHP-1 antibody | WB (Western Blot)                                                                                                                                  |
| Immunogen Type                                  | Peptide                                                                                                                                            |
| Immunogen Description                           | Synthesized peptide derived from C-terminal of human SHP-1.                                                                                        |
| Target Name                                     | SHP-1                                                                                                                                              |
| Preparation and Storage                         | Store at -20 degree C                                                                                                                              |



**WB (Western Blot)**  
Western blot analysis of extracts from JK cells (Lane 2), using SHP-1 (Ab-564) antibody. The lane on the left is treated with synthesized peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from Jurkat cells, using SHP-1 (Ab-564) antibody.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-SHP-1 antibody</b> | Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the transcription factors RELA, STAT3 and ETV1/ER81, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression. In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress. In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional potential. Phosphorylates ETV1/ER81 at 'Ser-191' and 'Ser-216', and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMG1/HMG14). In lipopolysaccharide-stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors. Plays a role in neuronal cell death by mediating the downstream effects of excitotoxic injury.Yi T., Mol. Cell. Biol. 12:836-846(1992).Shen S.H., Nature 352:736-739(1991).Plutzky J., Proc. Natl. Acad. Sci. U.S.A. 89:1123-1127(1992). |
| <b>Product Categories/Family for anti-SHP-1 antibody</b>   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                         |                                                   |
|-----------------------------------------|---------------------------------------------------|
| <b>NCBI GI #</b>                        | 32528295                                          |
| <b>NCBI GeneID</b>                      | 9252                                              |
| <b>NCBI Accession #</b>                 | NP_004746.2                                       |
| <b>NCBI GenBank Nucleotide #</b>        | NM_004755.2                                       |
| <b>UniProt Accession #</b>              | O75582; O95316; Q96AF7; B7Z2Y5                    |
| <b>Molecular Weight</b>                 | 81,780 Da                                         |
| <b>NCBI Official Full Name</b>          | ribosomal protein S6 kinase alpha-5 isoform a     |
| <b>NCBI Official Synonym Full Names</b> | ribosomal protein S6 kinase, 90kDa, polypeptide 5 |

|                               |                                     |
|-------------------------------|-------------------------------------|
| NCBI Official Symbol          | RPS6KA5                             |
| NCBI Official Synonym Symbols | MSK1; RLPK; MSPK1                   |
| NCBI Protein Information      | ribosomal protein S6 kinase alpha-5 |
| UniProt Protein Name          | Ribosomal protein S6 kinase alpha-5 |
| UniProt Gene Name             | <b>RPS6KA5</b>                      |
| UniProt Synonym Gene Names    | MSK1; S6K-alpha-5; RSKL             |
| UniProt Entry Name            | KS6A5_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/shp-1-antibody-western-blot-elisa/303971>