

## Rabbit SHP1 (Tyr-536) Polyclonal Antibody

SHP1 (Tyr-536), phospho-specific

|                              |                       |                                        |                                            |
|------------------------------|-----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA71533</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Rat, Mouse</b> | APPLICATIONS<br><b>Western Blot, ELISA</b> |
|------------------------------|-----------------------|----------------------------------------|--------------------------------------------|

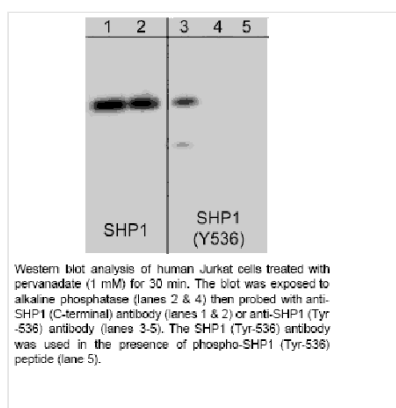
### PRODUCT SYNONYMS

SHP1 (Tyr-536); Polyclonal Antibody; phospho-specific; PTP-1C; Protein-tyrosine phosphatase 1C; SH-PTP1; SHP-1; anti-SHP1 (Tyr-536) antibody

### PRODUCT SPECIFICATIONS

|                                                          |                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                     | Rabbit                                                                                                                                                                                                                                                                                     |
| Reactivity                                               | Human, Rat, Mouse                                                                                                                                                                                                                                                                          |
| Clonality                                                | Polyclonal                                                                                                                                                                                                                                                                                 |
| Specificity                                              | This antibody was cross-adsorbed to a non-specific phospho-tyrosine peptide then affinity-purified using phospho-SHP1 (Tyr-536) peptide. The antibody detects a 68 kDa* band on SDS-PAGE immunoblots of human Jurkat cells treated with pervanadate, but is not observed in control cells. |
| Purity/Purification                                      | Affinity Purified                                                                                                                                                                                                                                                                          |
| Form/Format                                              | Rabbit polyclonal, affinity-purified antibody is supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.                                                                                                                                          |
| Applicable Applications for anti-SHP1 (Tyr-536) antibody | WB (Western Blot), ELISA                                                                                                                                                                                                                                                                   |
| Immunogen                                                | Phospho-SHP1 (Tyr-536) synthetic peptide (coupled to carrier protein) corresponding to amino acids around tyrosine 536 in human SHP1. The sequence is highly conserved in rat and mouse SHP1.                                                                                              |
| Preparation and Storage                                  | Store at -20°C. Stable for 1 year.                                                                                                                                                                                                                                                         |

### IMAGES



Application Data

ADDITIONAL INFORMATION

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|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SHP1 (Tyr-536) antibody | SHP1 (PTP1C, SH-PTP1, or HCP) is a protein-tyrosine phosphatase (PTP) involved in cell migration, cell proliferation, and immune cell function. This phosphatase contains two N-terminal SH2 domains and a C-terminal phosphatase domain. SHP1 associates with a variety of cytokine and growth factor receptors and regulates signal transduction through dephosphorylation of these receptors or their downstream effectors. Downstream of receptor activation, SHP1 regulates the transcriptional activity stimulated by JAK/Stat and MAPK pathways. SHP1 activity is regulated by both tyrosine and serine phosphorylation. Phosphorylation of Tyr-536 and Tyr-564 stimulates phosphatase activity and promotes interaction with Grb-2. Serine phosphorylation at Ser-591 is mediated by PKC-alpha and leads to inhibition of phosphatase activity. Thus, phosphorylation at tyrosine relative to serine residues may be regulated by different cell signaling pathways to control SHP1 activity. |
| References                                                   | <ul style="list-style-type: none"><li>• Jones, M.L. et al. (2004) J. Biol. Chem. 279(39):40475.</li><li>• Zhang, Z. et al. (2003) J. Biol. Chem. 278(7):4668.</li><li>• Zhang, J. et al. (2000) Semin. Immunol. 12:361.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**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/shp1-tyr-536-antibody-western-blot-elisa/71533>