

## SHPS-1/SIRP- $\alpha$ 1 Polyclonal Antibody

**CATALOG #:** 3067-100

**AMOUNT:** 100  $\mu$ g

**LOT #:** \_\_\_\_\_

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide surrounding amino acid 490 of human SHPS-1/SIRP $\alpha$ 1

**FORMULATION:**

100  $\mu$ g (0.5 mg/ml) peptide affinity purified rabbit anti-SHPS-1/SIRP-1 $\alpha$  polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

**SPECIES REACTIVITY:** human, mouse, rat

**STORAGE CONDITIONS:**

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND DESCRIPTION:**

SHPS-1, also known as SIRP-1 $\alpha$ , MyD-1, BIT, p84, or MFR, is a SHP-2 associated glycosylated receptor-like protein. SHP-2 has many splice variants and range from 75-110 kDa. It is a signal transducer for several receptor tyrosine kinases and cytokine receptors. SHPS-1 is a substrate of many activated tyrosine kinase such as insulin receptor, EGFR, PDGFR, and src, a specific docking protein for SHP-2. SHPS-1 has regulatory effects on cellular responses induced by serum, growth factors, insulin, oncogene, growth hormones and cell adhesion and plays a general role in different physiological and pathological processes. The mRNA of SHPS-1 is predominantly expressed in hematopoietic cells.

**SPECIFICITY:**

The antibody detects proteins ranging from 75-105 kDa corresponding to the splice variants of SIRP $\alpha$ 1, 2, and 3 on SDS-PAGE immunoblots.

**APPLICATION AND USAGE:**

The antibody can be used for Western blot analysis (1-4  $\mu$ g/ml). However, the optimal conditions should be determined individually. Other applications have not been tested.

**NOTE:** For Research Purpose Only! Not to be used in human.

**RELATED PRODUCTS:**

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- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

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Monoclonal and Polyclonal Antibodies