

## SH-PTP1 (Phospho Tyr536) Rabbit pAb

CatalogNo: YP0580 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 67kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human SHP-1 around the phosphorylation site of Tyr536. AA range:502-551

## Specificity

Phospho-SH-PTP1 (Y536) Polyclonal Antibody detects endogenous levels of SH-PTP1 protein only when phosphorylated at Y536. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SEyGN

## Target Information

**Gene name** PTPN6

**Protein Name** Tyrosine-protein phosphatase non-receptor type 6

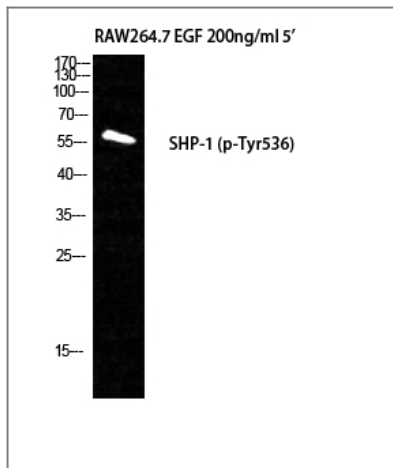
Organism	Gene ID	UniProt ID
Human	<a href="#">5777</a> ;	<a href="#">P29350</a> ;
Mouse	<a href="#">15170</a> ;	<a href="#">P29351</a> ;
Rat	<a href="#">116689</a> ;	<a href="#">P81718</a> ;

**Cellular Localization** Cytoplasm. Nucleus. In neurons , translocates into the nucleus after treatment with angiotensin II (By similarity) . Shuttles between the cytoplasm and nucleus via its association with PDPK1. .

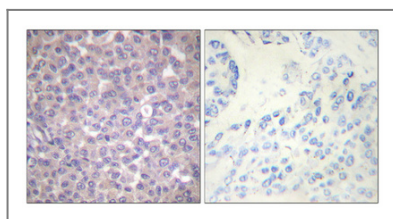
**Tissue specificity** Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.

**Function** Catalytic activity:Protein tyrosine phosphate + H (2) O = protein tyrosine + phosphate. ,Function:Plays a key role in hematopoiesis. This PTPase activity may directly link growth factor receptors and other signaling proteins through protein-tyrosine phosphorylation. 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. ,PTM:Phosphorylated on serine and tyrosine residues. ,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily. ,similarity:Contains 1 tyrosine-protein phosphatase domain. ,similarity:Contains 2 SH2 domains. ,subcellular location:In neurons , translocates into the nucleus after treatment with angiotensin II. ,subunit:Monomer. Interacts with MTUS1 (By similarity) . Binds PTPNS1 , LILRB1 and LILRB2. Interacts with FCRL2 , FCRL3 , FCRL4 , CD300LF and CD84. ,tissue specificity:Isoform 1 is expressed in hematopoietic cells while isoform 2 is expressed in non-hematopoietic cells. ,

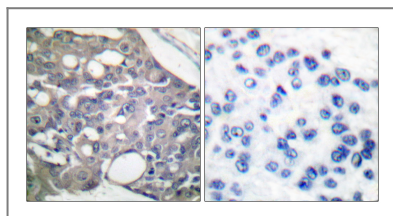
## Validation Data



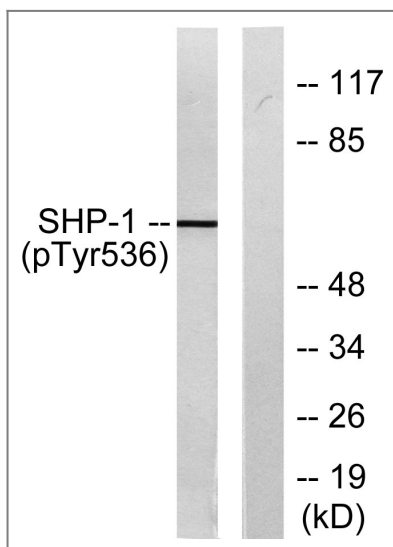
Western Blot analysis of RAW264.7+EGF cells using Phospho-SH-PTP1 (Y536) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SHP-1 (Phospho-Tyr536) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells treated with EGF 200ng/ml 5', using SHP-1 (Phospho-Tyr536) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**SH-PTP1 (Phospho Tyr536) Rabbit pAb**

