

**Phospho-SHP2 (Y542) Antibody**  
Rabbit mAb  
Catalog # AP90642

**Specification**

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**Phospho-SHP2 (Y542) Antibody - Product Information**

Application	WB, ICC, IP
Primary Accession	<a href="#">Q06124</a>
Clonality	Monoclonal
<b>Other Names</b>	
BPTP3; CFC; MGC14433; NS1; PTN11; PTP-1D; PTP-2C; PTP2C; PTPN11; SH-PTP2; SH-PTP3; SHP-2; Shp2; SHPTP2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	68011 Da

**Phospho-SHP2 (Y542) Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-SHP2 (Y542)
Description	SHP-2 a SH2-containing a ubiquitously expressed tyrosine-specific protein phosphatase. It participates in signaling events downstream of receptors for growth factors, cytokines, hormones, antigens and extracellular matrices in the control of cell growth, differentiation, migration, and death.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Phospho-SHP2 (Y542) Antibody - Protein Information**

**Name** PTPN11

**Synonyms** PTP2C, SHPTP2

**Function**

Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed:[10655584](http://www.uniprot.org/citations/10655584), PubMed:[14739280](http://www.uniprot.org/citations/14739280), PubMed:[18559669](http://www.uniprot.org/citations/18559669), PubMed:[18829466](http://www.uniprot.org/citations/18829466), PubMed:[18829466](#)

[26742426](http://www.uniprot.org/citations/26742426), PubMed:<[28074573](http://www.uniprot.org/citations/28074573)>). Positively regulates MAPK signal transduction pathway (PubMed:<[28074573](http://www.uniprot.org/citations/28074573)>). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:<[28074573](http://www.uniprot.org/citations/28074573)>). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:<[18559669](http://www.uniprot.org/citations/18559669)>). Dephosphorylates CDC73 (PubMed:<[26742426](http://www.uniprot.org/citations/26742426)>). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed:<[19275884](http://www.uniprot.org/citations/19275884)>).

#### Cellular Location

Cytoplasm. Nucleus

#### Tissue Location

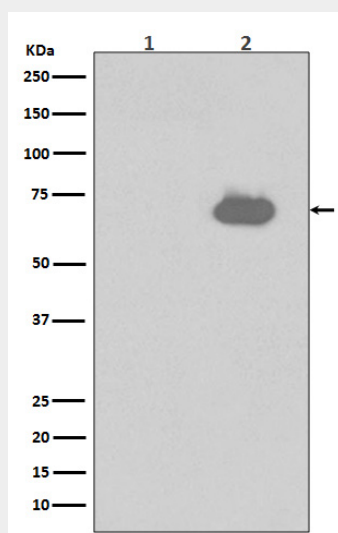
Widely expressed, with highest levels in heart, brain, and skeletal muscle.

#### Phospho-SHP2 (Y542) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Phospho-SHP2 (Y542) Antibody - Images



Western blot analysis of Phospho-SHP2 (Y542) expression in (1) NIH/3T3 cell lysates; (2) NIH/3T3 cell lysates treated with PDGF.