

# Phospho-SHP2 (Y542) Antibody

Rabbit mAb

Catalog # AP90642

## Product Information

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

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Phospho-SHP2 (Y542)
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	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.

## Protein Information

<b>Name</b>	PTPN11
<b>Synonyms</b>	PTP2C, SHPTP2
<b>Function</b>	Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed: <a href="#">10655584</a> , PubMed: <a href="#">14739280</a> , PubMed: <a href="#">18559669</a> , PubMed: <a href="#">18829466</a> , PubMed: <a href="#">26742426</a> , PubMed: <a href="#">28074573</a> ). Positively regulates MAPK signal transduction pathway (PubMed: <a href="#">28074573</a> ). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed: <a href="#">28074573</a> ). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed: <a href="#">18559669</a> ). Dephosphorylates CDC73 (PubMed: <a href="#">26742426</a> ). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed: <a href="#">19275884</a> ).

**Cellular Location**

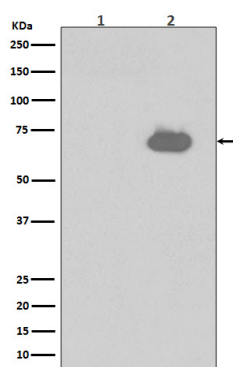
Cytoplasm. Nucleus

**Tissue Location**

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

**Images**

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

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