

# SHP2 Antibody

Rabbit mAb

Catalog # AP90752

## Product Information

<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">Q06124</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CFC; NS1; SHP2; BPTP3; SH-PTP2; SH-PTP3; Tyrosine-protein phosphatase non-receptor type 11; PTP-1D; PTP2C; Protein-tyrosine phosphatase 1D;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	68011

## Additional Information

<b>Dilution</b>	WB 1:500~1:1000 IP 1:20
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human SHP2
<b>Description</b>	SHP-2 is a ubiquitously expressed, nonreceptor protein tyrosine phosphatase (PTP). 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**

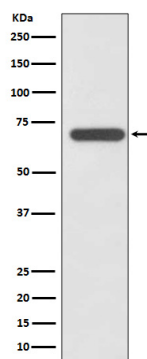
Cytoplasm. Nucleus

**Tissue Location**

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

**Images**

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Western blot analysis of SHP2 expression in A431 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.