

# SHP2 Antibody

Rabbit mAb

Catalog # AP90764

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">Q06124</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Tyrosine-protein phosphatase non-receptor type 11; Protein-tyrosine phosphatase 1D; SH-PTP2; PTP2C; PTP-1D; Protein-tyrosine phosphatase 2C; PTP-2C; SHP-2; Shp2; SH-PTP3; PTPN11; SHPTP2;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	68011

## Additional Information

<b>Dilution</b>	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human SHP2
<b>Description</b>	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily. 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> , PubMed: <a href="#">32184441</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:[19275884](#)). Acts as an effector of PDCD1-mediated inhibition of T-cell response: recruited by phosphorylated PDCD1, mediating dephosphorylation of key T-cell receptor (TCR) proximal signaling molecules, leading to TCR signaling inhibition (PubMed:[32184441](#)).

**Cellular Location**

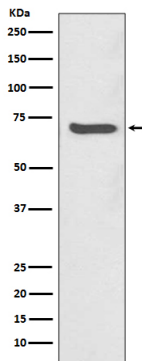
Cytoplasm. Nucleus

**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 Jurkat cell lysate.

Image not found : 202311/AP90764-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human heart, using SHP2 Antibody.

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