

SHP2 Antibody

Rabbit mAb Catalog # AP90764

Product Information

Application WB, IHC, IF, ICC, IP, IHF

Primary Accession

Reactivity

Clonality

Q06124

Human

Monoclonal

Other Names 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;

IsotypeRabbit IgGHostRabbitCalculated MW68011

Additional Information

Dilution WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human SHP2

DescriptionBelongs 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.

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.

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, PubMed:14739280, PubMed:18559669, PubMed:18829466, PubMed:26742426, PubMed:28074573). Positively regulates MAPK signal transduction pathway (PubMed:28074573). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:28074573). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA

binding activity (PubMed: 18559669). Dephosphorylates CDC73

(PubMed:<u>26742426</u>). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates

tyrosine-phosphorylated NEDD9/CAS-L (PubMed: 19275884).

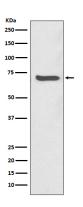
Cellular Location

Cytoplasm. Nucleus

Tissue Location

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

Images



Western blot analysis of SHP2 expression in Jurkat cell lysate.

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

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