

SH-PTP2 Polyclonal Antibody

Catalog # AP72478

Product Information

Application WB, IHC-P **Primary Accession** 006124

Reactivity Human, Mouse, Rat, Monkey

HostRabbitClonalityPolyclonalCalculated MW68011

Additional Information

Gene ID 5781

Other Names PTPN11; PTP2C; SHPTP2; Tyrosine-protein phosphatase non-receptor type 11;

Protein-tyrosine phosphatase 1D; PTP-1D; Protein-tyrosine phosphatase 2C;

PTP-2C; SH-PTP2; SHP-2; Shp2; SH-PTP3

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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

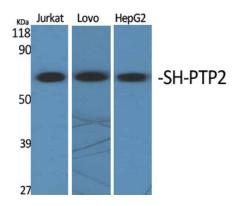
tyrosine-phosphorylated NEDD9/CAS-L (PubMed:19275884).

Cellular Location Cytoplasm. Nucleus

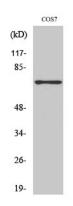
Background

Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Positively regulates MAPK signal transduction pathway (PubMed:28074573). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:28074573). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulatation of its RhoA binding activity. Dephosphorylates CDC73 (PubMed:26742426).

Images



Western Blot analysis of various cells using SH-PTP2 Polyclonal Antibody diluted at 1: 2000



Western Blot analysis of COS7 cells using SH-PTP2 Polyclonal Antibody diluted at 1: 2000

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