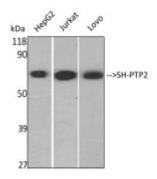


Anti-SH-PTP2 antibody





Description	Rabbit polyclonal to SH-PTP2.

Model STJ95658

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, IHC, WB

Immunogen Synthesized peptide derived from human SH-PTP2 around the non-

phosphorylation site of Y580.

Immunogen Region 520-600 aa

Gene ID <u>5781</u>

Gene Symbol PTPN11

Dilution range WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000

Specificity SH-PTP2 Polyclonal Antibody detects endogenous levels of SH-PTP2 protein.

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

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name 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

Molecular Weight 68 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:9644OMIM:151100

Alternative Names 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

Function 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 . Dephosphorylates GAB1, ARHGAP35 and EGFR . Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulatation of its RhoA binding activity. Dephosphorylates

CDC73.

Sequence and Domain Family The SH2 domains repress phosphatase activity. Binding of these domains to

phosphotyrosine-containing proteins relieves this auto-inhibition, possibly by

inducing a conformational change in the enzyme.

Cellular Localization Cytoplasm Nucleus

Post-translational Phosphorylated on Tyr-546 and Tyr-584 upon receptor protein tyrosine kinase activation; which creates a binding site for GRB2 and other SH2-containing

activation; which creates a binding site for GRB2 and other SH2-containing proteins. Phosphorylated upon activation of the receptor-type kinase FLT3. Phosphorylated upon activation of the receptor-type kinase PDGFRA.

Phosphorylated by activated PDGFRB.

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