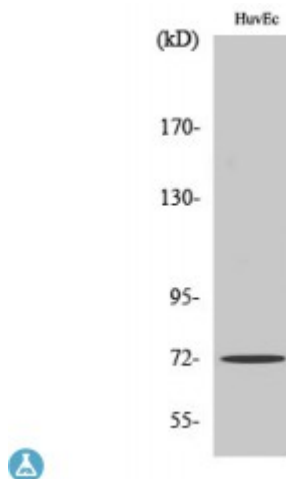


Anti-SH-PTP2 antibody



Description	Rabbit polyclonal to SH-PTP2.
Model	STJ95659
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human SH-PTP2 around the non-phosphorylation site of Y542.
Immunogen Region	480-560 aa
Gene ID	5781
Gene Symbol	PTPN11
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:40000
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	70 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 stimulation 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 Modifications	Phosphorylated on Tyr-546 and Tyr-584 upon receptor protein tyrosine kinase 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.