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SH-PTP2 (phospho Tyr580) Polyclonal Antibody

Catalog No	YP-Ab-14428
Isotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PTPN11
Protein Name	Tyrosine-protein phosphatase non-receptor type 11
Immunogen	The antiserum was produced against synthesized peptide derived from human SHP-2 around the phosphorylation site of Tyr580. AA range:546-595
Specificity	Phospho-SH-PTP2 (Y580) Polyclonal Antibody detects endogenous levels of SH-PTP2 protein only when phosphorylated at Y580.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	70kD
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	Widely expressed, with highest levels in heart, brain, and skeletal muscle.
Function	catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,disease:Defects in PTPN11 are a cause of juvenile myelomonocytic leukemia (JMML) [MIM:607785]. JMML is a pediatric myelodysplastic syndrome that constitutes approximately 30% of childhood cases of myelodysplastic syndrome (MDS) and 2% of leukemia. It is characterized by leukocytosis with tissue infiltration and in vitro hypersensitivity of myeloid progenitors to granulocyte-macrophage colony stimulating factor.,disease:Defects in PTPN11 are a cause of Noonan-like syndrome [MIM:163955]; also known as Noonan-like/multiple giant cell lesion syndrome. It is an autosomal dominant disorder characterized by Noonan features associates with giant cell lesions of bone and soft tissue.,disease:Defects in PTPN11 are the cause of LEOPARD syndrome [MIM:151100]. It is an autosomal dominant disorder allelic with Noonan

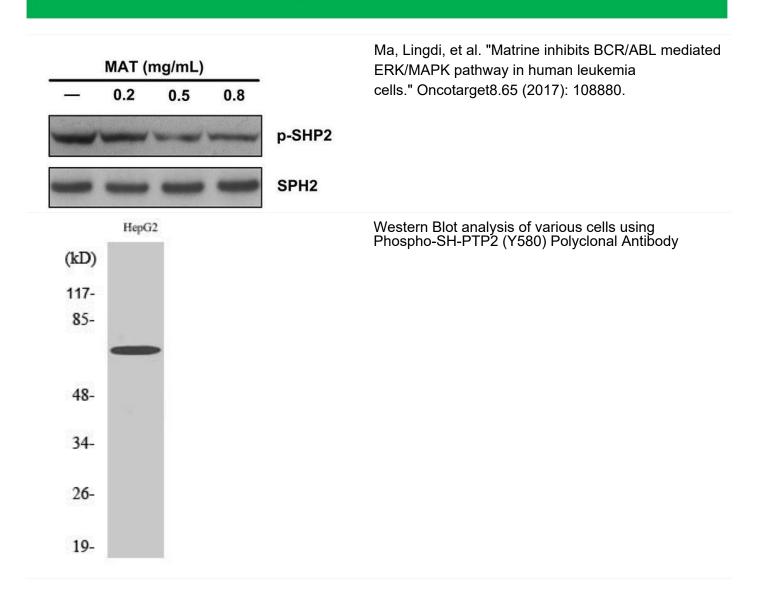


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BackgroundThe protein encoded by this gene is a member of the protein tyrosine
phosphatase (PTP) family. PTPs are known to be signaling molecules that
regulate a variety of cellular processes including cell growth, differentiation, mitotic
cycle, and oncogenic transformation. This PTP contains two tandem Src
homology-2 domains, which function as phospho-tyrosine binding domains and
mediate the interaction of this PTP with its substrates. This PTP is widely
expressed in most tissues and plays a regulatory role in various cell signaling
events that are important for a diversity of cell functions, such as mitogenic
activation, metabolic control, transcription regulation, and cell migration. Mutations
in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia.
[provided by RefSeq, Aug 2016],Matters needing
attentionAvoid repeated freezing and thawing!Usage suggestionsThis product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.

Products Images



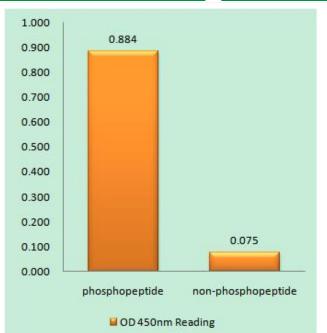
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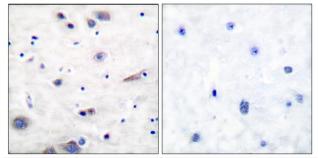
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using SHP-2 (Phospho-Tyr580) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using SHP-2 (Phospho-Tyr580) Antibody. The picture on the right is blocked with the phospho peptide.

