

# Rabbit Anti-Phospho-SHP2 (Tyr580) antibody

## SL3405R

Product Name:	Phospho-SHP2 (Tyr580)
Chinese Name:	磷酸化蛋白酪氨酸磷酸酶2抗体
Alias:	SHP2 (phospho Y580); p-SHP2 (phospho Y580); PTPN11(Phospho-Tyr580); PTPN11; PTN11_HUMAN; BPTP 3; BPTP3; CFC; MGC14433; SHP 2; Noonan syndrome 1; Noonan syndrome 1 protein tyrosine phosphatase 2C; NS 1; NS1; Protein tyrosine phosphatase 2C; Protein Tyrosine Phosphatase Non receptor Type 11; PTP 1D; PTP 2C; PTP1D; PTP2C; PTPN 11; SAP2; SH PTP2; SH PTP3; SH2 domain containing protein tyrosine phosphatase 2; SHIP2; SHP 2; SHP-2; SHPTP 2; SHPTP2; SHPTP3; SIT protein precursor; Syp; Tyrosine protein phosphatase non receptor type 11; Src homology 2 (SH2) domain containing phosphotyrosinephosphatase 2.
	D 11:
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	66kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PTPN11 around the phosphorylation site of Tyr584:RV(p-Y)E
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 °C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antihody, the antihody is stable for at least two weeks at 2.4.90
DubMod.	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:  Product Detail:	PubMed  The 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]  Function:  Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Dephosphorylates ROCK2 at Tyr-722 resulting in stimulatation of its RhoA binding activity.  Subunit:  Interacts with phosphorylated LIME1 and BCAR3. Interacts with SHB and INPPSD/SHIP1. Interacts with MILR1 (tyrosine-phosphorylated), Interacts with FLT1 (tyrosine-phosphorylated), ELT3 (tyrosine-phosphorylated), FLT4 (tyrosine-phosphorylated), KT and GRB2. Interacts with phosphorylated), By similarity). Interacts with PTPNS1 and CD84. Interacts with phosphorylated ST1 and MPZ1.1. Interacts with PCRL3, FCRL4, FCRL6 and ANKHD1. Interacts with KIR2DL1; the interaction is enhanced by ARRB2. Interacts with PGSAM1 and FER. Interacts with FERT interacts with FCRAM1 and FER. Interacts with FCRL3, FCRL4, FCRL6 and ANKHD1. Interacts with TERT; the interaction retains TERT in the nucleus. Interacts with PECAM1 and FER. Interacts with FPHA2 (activated); participates in PTK2/FAK1 dephosphorylation in EPHA2 downstream signaling. Interacts with ROS1; mediates PTPN11 phosphorylated

activated PDGFRB.

### Similarity:

Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.

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Contains 2 SH2 domains.

Contains 1 tyrosine-protein phosphatase domain.

#### **SWISS:**

Q06124

#### Gene ID:

5781

#### Database links:

Entrez Gene: 5781 Human

Entrez Gene: 19247 Mouse

Entrez Gene: 25622 Rat

Omim: 176876 Human

SwissProt: Q06124 Human

SwissProt: P35235 Mouse

SwissProt: P41499 Rat

Unigene: 506852 Human

Unigene: 474046 Mouse

Unigene: 8681 Mouse

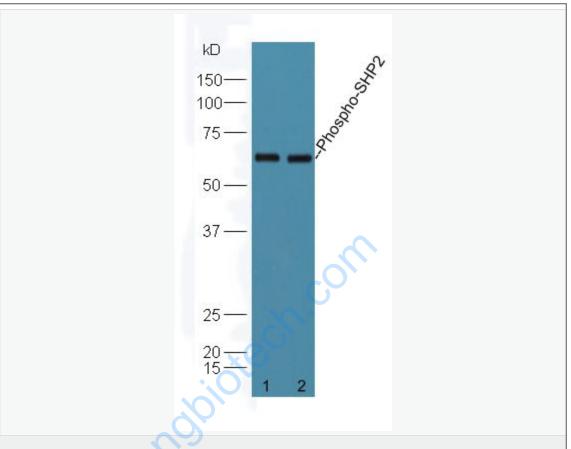
Unigene: 98209 Rat

#### **Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SHP2(SH-PTP2)参与多种细胞内信号传导 如MAP kinase、

PI3k等途径, SHP2也是许多其他原癌基因信号通路的重要组成部分, 在细胞的增殖及分化等过程扮演重要的角色.



Picture:

Sample:

Lane1: Brain(Mouse) lysate at 30ug;

Lane2: Muscle(Mouse) lysate at 30ug;

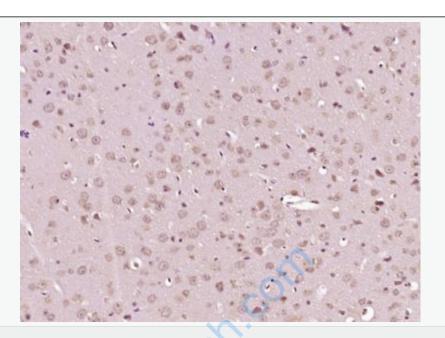
Primary: Anti-Phospho-SHP2 (SL3405R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1:5000

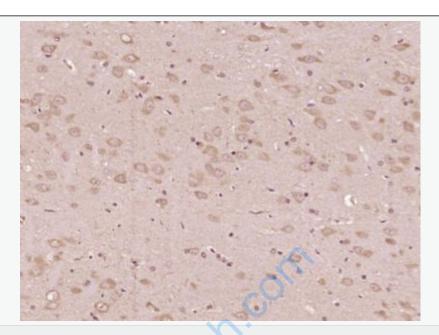
dilution;

Predicted band size: 66 kD

Observed band size: 66 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-SHP2 (Tyr580)) Polyclonal Antibody, Unconjugated (SL3405R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-SHP2 (Tyr580)) Polyclonal Antibody, Unconjugated (SL3405R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.