

Rabbit Anti-phospho-SHC (Tyr317) antibody

SL3413R

Product Name:	phospho-SHC (Tyr317)
Chinese Name:	磷酸化SH2结构域转化蛋白1抗体
Alias:	 SHC (phospho Y317); p-SHC (phospho Y317); p46; p52; p52 SHC; p52SHC; p66; p66 SHC; p66SHC; SH2 domain protein C1; SHC (Src homology 2 domain containing) transforming protein 1; SHC 1; SHC A; Shc; SHC transforming protein 1; SHC transforming protein; SHC1; SHCA; Src homology 2 domain containing transforming protein C1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat,
	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections
	need antigen repair)
Applications:	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	63kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human SHC around the
	phosphorylation site of Tyr317:KQ(p-Y)LR
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
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTT. Interacts with ALK, GAB2, GRB7 and KIT. Interacts with FLT4 (tyrosine- phosphorylated). Interacts with EPHB1 and GRB2; activates the MAPK/ERK cascade to regulate cell migration. Interacts with PDGFRB (tyrosine-phosphorylated). Interacts with ERBB4. Interacts with TEK/TIE2 (tyrosine-phosphorylated). Interacts with the Trk receptors NTRK1, NTRK2 and NTRK3; in a phosphotyrosine-dependent manner. Interacts with PTK2/FAK1. Subcellular Location: Cytoplasm. Isoform p46Shc: Mitochondrion matrix. Note=Localized to the mitochondria matrix. Targeting of isoform p46Shc to mitochondria is mediated by its first 32 amino acids, which behave as a bona fide mitochondrial targeting sequence. Isoform p52Shc and	Product Detail:	 phosphorylated). Interacts with EPHB1 and GRB2; activates the MAPK/ERK cascade to regulate cell migration. Interacts with PDGFRB (tyrosine-phosphorylated). Interacts with ERBB4. Interacts with TEK/TIE2 (tyrosine-phosphorylated). Interacts with the Trk receptors NTRK1, NTRK2 and NTRK3; in a phosphotyrosine-dependent manner. Interacts with PTK2/FAK1. Subcellular Location: Cytoplasm. Isoform p46Shc: Mitochondrion matrix. Note=Localized to the mitochondria matrix. Targeting of isoform p46Shc to mitochondria is mediated by its first 32 amino acids,
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Isoform p66Shc: Mitochondrion. Note=In case of oxidative conditions, phosphorylation at 'Ser-36' of isoform p66Shc, leads to mitochondrial accumulation.

Tissue Specificity:

Widely expressed. Expressed in neural stem cells but absent in mature neurons.

Post-translational modifications:

Phosphorylated by activated epidermal growth factor receptor. Phosphorylated in response to FLT4 and KIT signaling. Isoform p46Shc and isoform p52Shc are phosphorylated on tyrosine residues of the Pro-rich domain. Isoform p66Shc is phosphorylated on Ser-36 by PRKCB upon treatment with insulin, hydrogen peroxide or irradiation with ultraviolet light. Tyrosine phosphorylated in response to FLT3 signaling. Tyrosine phosphorylated by activated PTK2B/PYK2. Tyrosine phosphorylated by ligand-activated ALK. Tyrosine phosphorylated by ligand-activated PDGFRB. Tyrosine phosphorylated by TEK/TIE2. May be tyrosine phosphorylated by activated PTK2/FAK1; tyrosine phosphorylation was seen in an astrocytoma biopsy, where PTK2/FAK1 kinase activity is high, but not in normal brain tissue.

Similarity: Contains 1 PID domain. Contains 1 SH2 domain.

SWISS: P29353

Gene ID: 6464

Database links:

Entrez Gene: 6464Human

Entrez Gene: 20416Mouse

Entrez Gene: 85385Rat

<u>Omim: 600560</u>Human

SwissProt: P29353Human

SwissProt: P98083Mouse

SwissProt: Q5M824Rat

Unigene: 433795Human

Unigene: 86595Mouse

Unigene: 138818Rat

