



Rabbit Anti-SHC2 antibody

SL12144R

Product Name:	SHC2
Chinese Name:	SCK蛋白抗体
Alias:	Sck; Protein Sck; SCK; SH2 domain protein C2; SHC transforming protein 2; SHCB; Src homology 2 domain containing transforming protein C2; SHC2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Sheep,
Applications:	ELISA=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:	62kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SHC2/Sck:161-270/582
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
Product Detail:	Src homology 2 (SH2) domains bind specifically to tyrosine-phosphorylated proteins that temporally participate in signal transduction events (1). Shc-like protein (Sck) is a neuronal adaptor protein that contains an N-terminal PTB (phosphotyrosine binding) domain, a collagen homology (CH) domain, and a conserved C-terminal SH2 domain (2,3). Human Sck transcripts are present at high levels in liver, pancreas, prostate and ovary (4,5). In vascular endothelial cells, Sck participates in VEGF-induced signal

transduction (6). Treatment of human umbilical vein endothelial (HUVEC) cells with VEGF induces recruitment of Sck to tyrosine-1175 of the kinase insert domain-containing receptor (KDR) and enhances Sck tyrosine phosphorylation (7,8).

Function:

Signaling adapter that couples activated growth factor receptors to signaling pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons

Subunit:

Interacts with the Trk receptors in a phosphotyrosine-dependent manner and MEGF12. Once activated, binds to GRB2.

Tissue Specificity:

Expressed in brain. Expressed at high level in the hypothalamus and at low level in the caudate nucleus.

Post-translational modifications:

Phosphorylated on tyrosines by the Trk receptors.

Similarity:

Contains 1 PID domain.
Contains 1 SH2 domain.

SWISS:

P98077

Gene ID:

25759

Database links:

[Entrez Gene: 25759](#) Human

[SwissProt: P98077](#) Human

Important Note:

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