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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.
Research Area	Cell biology Neurobiology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Dog, Cow, Sheep,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	62kDa
Cellular localization	cytoplasmic The cell membrane
Form	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
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Src homology 2 (SH2) domains bind specifically to tyrosine-phosphorylated proteins that

Detail

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