Shc1(Phospho-Tyr349) Antibody

Catalog No: #11316

Package Size: #11316-1 50ul #11316-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Shc1(Phospho-Tyr349) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of Shc1 only when phosphorylated at tyrosine 349.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 349 (H-Q-Y(p)-Y-N) derived from Human Shc1.
Target Name	Shc1
Modification	Phospho
Other Names	SH2 domain protein C1; SHC; SHC-transforming protein 1; SHCA; Src homology 2 domain-containing-transforming protein C1
Accession No.	Swiss-Prot: P29353NCBI Protein: NP_001123512.1
Uniprot	P29353
GeneID	6464;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

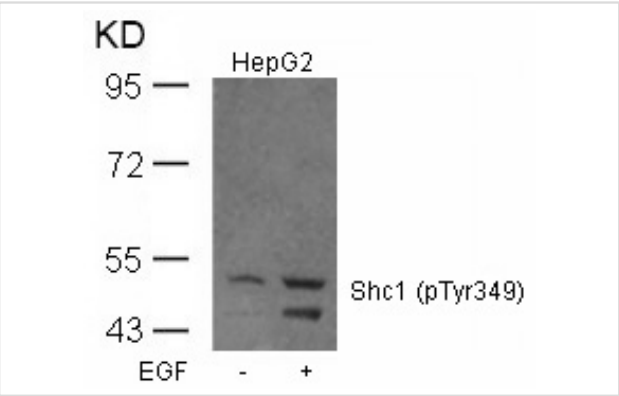
Application Details

Predicted MW: 46 52 kd

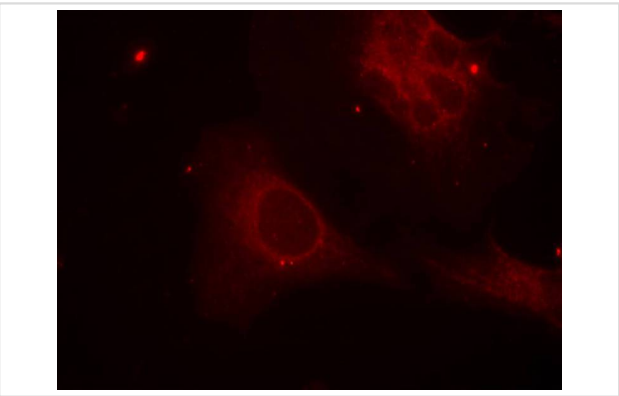
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from HepG2 cells untreated or treated with EGF using Shc1(Phospho-Tyr349) Antibody #11316.



Immunofluorescence staining of methanol-fixed Hela cells using Shc1(Phospho-Tyr349) Antibody #11316.

Background

Signaling adapter that couples activated growth factor receptors to signaling pathway. Isoform p46Shc and isoform p52Shc, once phosphorylated, couple activated receptor tyrosine kinases to Ras via the recruitment of the GRB2/SOS complex and are implicated in the cytoplasmic propagation of mitogenic signals. Isoform p46Shc and isoform p52Shc may thus function as initiators of the Ras signaling cascade in various non-neuronal systems. Isoform p66Shc does not mediate Ras activation, but is involved in signal transduction pathways that regulate the cellular response to oxidative stress and life span. Isoform p66Shc acts as a downstream target of the tumor suppressor p53 and is indispensable for the ability of stress-activated p53 to induce elevation of intracellular oxidants, cytochrome c release and apoptosis. The expression of isoform p66Shc has been correlated with life span

Trampont P, et al. (2006) Mol Cell Biol; 26(23): 9035-9044.
Patrussi L, et al. (2005) Oncogene; 24(13): 2218-2228
van der Geer P, et al. (1996) Curr Biol ; 6(11): 1435-1444

Note: This product is for in vitro research use only