Datasheet for ABIN7139005

anti-SHC1 antibody (pTyr427)

3 Images

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Overview

Quantity:	100 µL
Target:	SHC1
Binding Specificity:	pTyr427
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of tyrosine 427 (P-S-Y(p)-V-N derived from Human Shc1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
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 usi

Target Details

Target:	SHC1
Alternative Name:	SHC1 (SHC1 Products)

Target Details

Background:	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 Aliases: FLJ26504 antibody, p66 antibody, p66SHC antibody, SH2 domain protein C1 antibody, SHC (Src homology 2 domain containing) transforming protein 1 antibody, SHC 1 antibody, SHC A antibody, SHC adaptor protein 1 antibody, Shc antibody, SHC transforming protein 1 antibody, SHC transforming protein antibody, SHC-transforming protein 1 antibody, SHC-transforming protein 3 antibody, SHC-transforming protein A antibody, SHC1 antibody, SHC1_HUMAN antibody, SHCA antibody, Src homology 2 domain-containing-transforming protein C1 antibody
UniProt:	P29353
Pathways:	RTK Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, ER-Nucleus Signaling, Signaling Events mediated by VEGFR1 and VEGFR2

Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

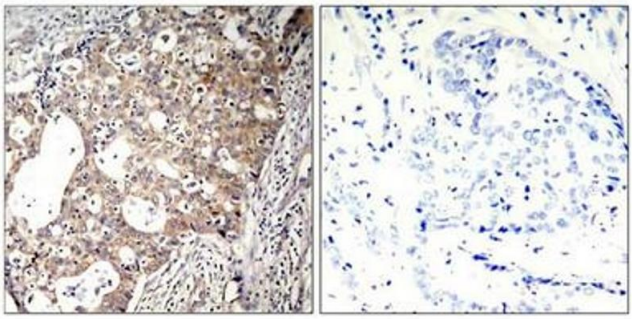
Handling

Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM

Handling

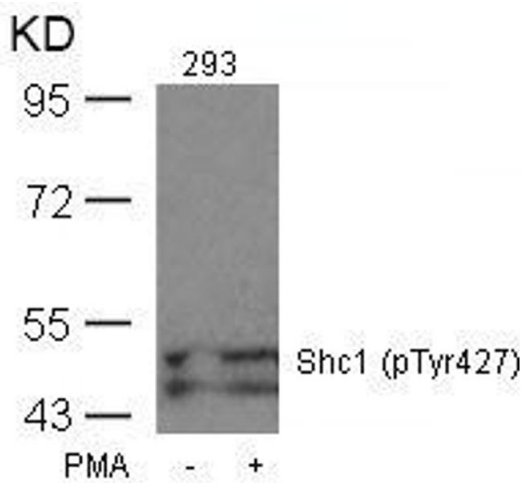
	NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



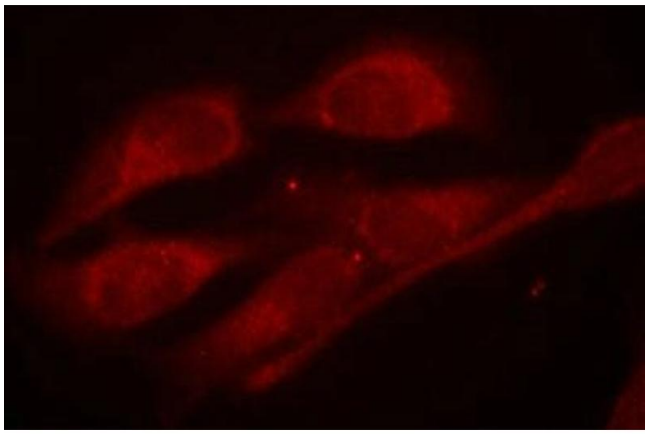
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Shc1(Phospho-Tyr427) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells untreated or treated with PMA using Shc1(Phospho-Tyr427) Antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of methanol-fixed Hela cells using Shc1(Phospho-Tyr427) Antibody.