www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-ShcA Antibody

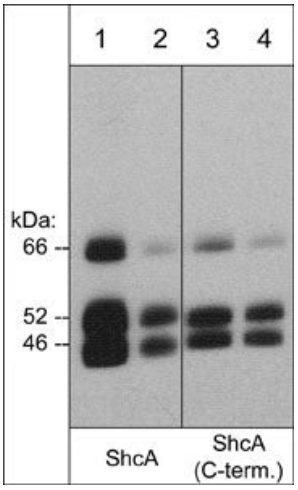
phosphosolutions ANTIBODIES THAT WORK

Product Details

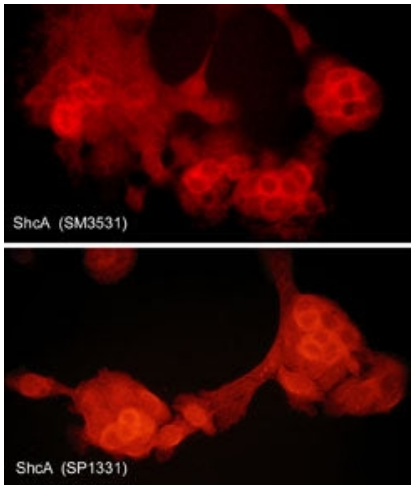
Available Variants	100 µL (SKU:SP1331)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	SHC1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:50
Species Reactivity	Human, Mouse, Rabbit, Rat
Immunogen	A recombinant protein that included amino acid residues within the C-terminal region of human ShcA. This sequence has high homology with similar regions in rat and mouse ShcA.
Specificity	The antibody detects 46/52/66 kDa* bands corresponding to the molecular weight of ShcA variants on SDS-PAGE immunoblots of A431 cells. It also detects ShcA in human Jurkat, HeLa, and SKN-SH cells, as well as rat brain tissue and rabbit spleen fibroblasts.
Molecular Weight	45/52/66
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	P29353 UniProt Summary: Signaling adapter that couples activated growth factor receptors to signaling pathways. Participates in a signaling cascade initiated by activated KIT and KITLG/SCF. 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. Participates in signaling downstream of the angiopoietin receptor TEK/TIE2, and plays a role in the regulation of endothelial cell migration and sprouting angiogenesis.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	6464

Product Images



Western blot analysis of ShcA expression in A431 cell lysate (lanes 1, 2, 3, & 4). The blots were probed with rabbit polyclonal anti-ShcA (SP1331) at 1:1000 (lane 1) or 1:4000 (lane 2) and mouse monoclonal ShcA (C-terminal region) at 1:1000 (lane 3) or 1:4000 (lane 4).



Immunocytochemical labeling of ShcA in paraformaldehyde-fixed and NP-40-permeabilized A431 cells. The cells were labeled with mouse monoclonal (top) and rabbit polyclonal (bottom) ShcA antibodies, then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.