

Anti-ShcA

Cat. # **SP1331**
Host **Rabbit Polyclonal**
Size **100µl**

Background:

The adapter protein Shc was initially identified as an SH2 containing proto-oncogene involved in growth factor signaling. Since then, a number of studies in multiple systems have implicated a role for Shc in many different types of signal transduction including growth factor, antigen, cytokine, G-protein, hormone, and integrin receptor signaling. In addition to the ubiquitous ShcA, there are two other shc gene products, ShcB and ShcC, which are predominantly expressed in neuronal cells. ShcA knockout mice are embryonic lethal and have clearly suggested an important role for ShcA *in vivo*. An important role for Shc in the activation of MAPK pathway has been established. Thus, Shc adapter proteins are critical components of signal transduction pathways involved in many different cellular processes.

References:

Cutler, R.L. et al. (1993) J Biol Chem 268:21463.
Ravichandran, K.S. (2001) Oncogene 20(44):6322.

Immunogen:

Amino acid residues within the C-terminal region of human ShcA. The human ShcA sequence used has high homology with similar regions in rat and mouse ShcA.

Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Applications:

Western blotting 1:1000 dilution[†]
ELISA 1:2000 dilution

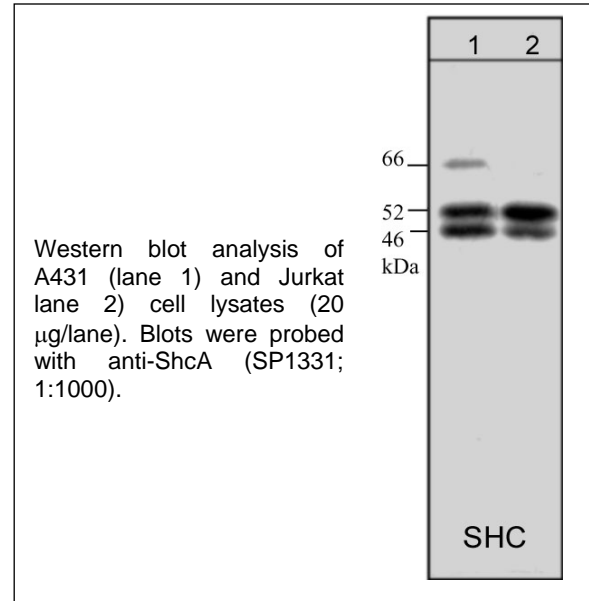
End user should determine optimal dilution for their particular applications and experiments.

[†]Membrane was incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

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.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.



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