

# ShcA

**Cat. #** SP1331

**Host** Rabbit Polyclonal

**Size** 100 µl

## 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:

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.

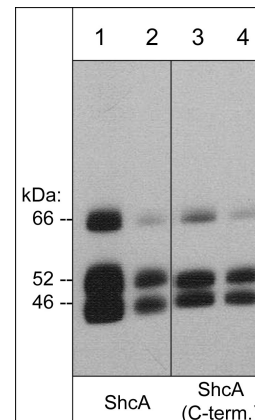
## Applications:

WB 1:1000  
 ELISA 1:2000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

## Related Products:

CM1591 c-Cbl (C-terminal Region) Mouse Monoclonal  
 CM1611 c-Cbl (Tyr-700), phospho-specific Mouse Monoclonal  
 PM1561 PLCγ1 (N-terminal Region) Mouse Monoclonal  
 PP1491 PLCγ1 (Tyr-775), phospho-specific Rabbit Polyclonal  
 SM3531 ShcA (C-terminal region) Mouse Monoclonal



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).

## 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.

## 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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