

## Shc (phospho Ser36) rabbit pAb

Cat No.: ES7189

For research use only

## Overview

Product Name Shc (phospho Ser36) rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA
Species Cross-Reactivity Human;Mouse

**Recommended dilutions** Immunohistochemistry: 1/100 - 1/300. ELISA:

1/40000. Not yet tested in other applications.

**Immunogen** Synthesized phospho-peptide around the

phosphorylation site of human Shc (phospho Ser36)

**Specificity** Phospho-Shc (S36) Polyclonal Antibody detects

endogenous levels of Shc protein only when

phosphorylated at S36.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

**Storage** Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name SHC-transforming protein 1

Gene Name SHC1

**Cellular localization** Cytoplasm.; [Isoform p46Shc]: Mitochondrion

matrix . Localized to the mitochondria matrix. Targeting of isoform p46Shc to mitochondria is mediated by its first 32 amino acids, which behave as a bona fide mitochondrial targeting sequence.

Isoform p52Shc an

**Purification** The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

**Observed band** 

Human Gene ID 6464 Human Swiss-Prot Number P29353

Alternative Names SHC1; SHC; SHCA; SHC-transforming protein 1;

SHC-transforming protein 3; SHC-transforming

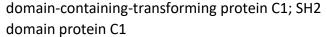
protein A; Src homology 2



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**Background** 



This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011],

Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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