

### Shc (Ab-349) Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50024

### **Specification**

### Shc (Ab-349) Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality

Calculated MW

Antigen Region

**WB, IHC** P29353

Human, Mouse, Rat

Rabbit Polyclonal

63,52,47,40 KDa

327-355

## Shc (Ab-349) Antibody - Additional Information

#### **Gene ID 6464**

#### **Other Names**

SHC-transforming protein 1, SHC-transforming protein 3, SHC-transforming protein A, Src homology 2 domain-containing-transforming protein C1, SH2 domain protein C1, SHC1, SHC, SHCA

## **Dilution**

WB~~ 1:1000 IHC~~1:50-1:100

#### **Format**

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

## **Storage Conditions**

-20°C

# **Shc (Ab-349) Antibody - Protein Information**

#### Name SHC1

Synonyms SHC, SHCA

#### **Function**

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 (By similarity). Participates in signaling downstream of the angiopoietin receptor TEK/TIE2, and plays a role in the regulation of endothelial cell migration and sprouting angiogenesis.

#### **Cellular Location**

Cytoplasm. Cell junction, focal adhesion [Isoform p66Shc]: Mitochondrion. Note=In case of oxidative conditions, phosphorylation at 'Ser-36' of isoform p66Shc, leads to mitochondrial accumulation.

#### **Tissue Location**

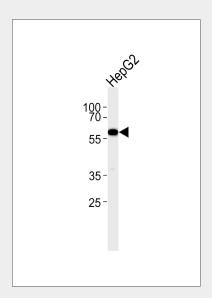
Widely expressed. Expressed in neural stem cells but absent in mature neurons

### Shc (Ab-349) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

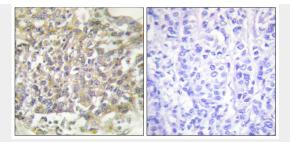
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### Shc (Ab-349) Antibody - Images



Western blot analysis of lysates from HepG2 cell line,using Shc (Ab-349) Antibody(B0024). B0024 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug.





Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Shc (Ab-349) antibody.

## Shc (Ab-349) Antibody - Background

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# Shc (Ab-349) Antibody - References

Pelicci G., et al. Cell 70:93-104(1992).
Migliaccio E., et al. EMBO J. 16:706-716(1997).
Harun R.B., et al. Genomics 42:349-352(1997).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Goshima N., et al. Nat. Methods 5:1011-1017(2008).

## Shc (Ab-349) Antibody - Citations

 Progression Risk Score Estimation Based on Immunostaining Data in Oral Cancer Using Unsupervised Hierarchical Clustering Analysis: A Retrospective Study in Taiwan