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Phospho-SHC(Y427) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3588a

Specification

Phospho-SHC(Y427) Antibody Blocking peptide - Product Information

Primary Accession P29353

Phospho-SHC(Y427) Antibody Blocking peptide - 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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3588a was selected from the region of human Phospho-SHC-pY427. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-SHC(Y427) Antibody Blocking peptide - 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

Phospho-SHC(Y427) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-SHC(Y427) Antibody Blocking peptide - Images

Phospho-SHC(Y427) Antibody Blocking peptide - Background

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Phospho-SHC(Y427) Antibody Blocking peptide - References

Pelicci G., Cell 70:93-104(1992).Craparo A., J. Biol. Chem. 270:15639-15643(1995).