

Mouse Shc1 Antibody(Center) Blocking peptide
Synthetic peptide
Catalog # BP19642c**Specification**

Mouse Shc1 Antibody(Center) Blocking peptide - Product InformationPrimary Accession [P98083](#)**Mouse Shc1 Antibody(Center) Blocking peptide - Additional Information****Gene ID** 20416**Other Names**

SHC-transforming protein 1, SHC-transforming protein A, Src homology 2 domain-containing-transforming protein C1, SH2 domain protein C1, Shc1, Shc, ShcA

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.

Mouse Shc1 Antibody(Center) Blocking peptide - Protein Information**Name** Shc1**Synonyms** Shc, ShcA**Function**

Signaling adapter that couples activated growth factor receptors to signaling pathways. Participates in signaling downstream of the angiopoietin receptor TEK/TIE2, and plays a role in the regulation of endothelial cell migration and sprouting angiogenesis (By similarity). Participates in a signaling cascade initiated by activated KIT and KITLG/SCF. Isoform p47Shc and isoform p52Shc, once phosphorylated, couple activated receptor kinases to Ras via the recruitment of the GRB2/SOS complex and are implicated in the cytoplasmic propagation of mitogenic signals. Isoform p47Shc and isoform p52 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.

Cellular Location

Cytoplasm. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P29353} [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

Mouse Shc1 Antibody(Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Shc1 Antibody(Center) Blocking peptide - Images**Mouse Shc1 Antibody(Center) Blocking peptide - Background**

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Ursini-Siegel, J., et al. Cancer Res. 70(20):7776-7787(2010)Ma, Z., et al. Oncogene 29(41):5559-5567(2010)Fadini, G.P., et al. Diabetes 59(9):2306-2314(2010)Ranieri, S.C., et al. Proc. Natl. Acad. Sci. U.S.A. 107(30):13420-13425(2010)Gines, S., et al. J. Biol. Chem. 285(28):21537-21548(2010)