

Datasheet for ABIN1881805
anti-SHC1 antibody (AA 378-405)



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Overview

Quantity:	400 µL
Target:	SHC1
Binding Specificity:	AA 378-405
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHC1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This Mouse Shc1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 378-405 amino acids from the Central region of mouse Shc1.
Clone:	RB40722
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SHC1
Alternative Name:	Shc1 (SHC1 Products)
Background:	Signaling adapter that couples activated growth factor receptors to signaling pathway. Isoform

Target Details

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.

Molecular Weight: 62608

NCBI Accession: [NP_001106802](#), [NP_035498](#)

UniProt: [P98083](#)

Pathways: [RTK Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [ER-Nucleus Signaling](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months

Publications

Product cited in: Trnka, Burlingame et al.: "Topographic studies of the GroEL-GroES chaperonin complex by

chemical cross-linking using diformyl ethynylbenzene: the power of high resolution electron transfer dissociation for determination of..." in: **Molecular & cellular proteomics : MCP**, Vol. 9, Issue 10, pp. 2306-17, (2010) ([PubMed](#)).

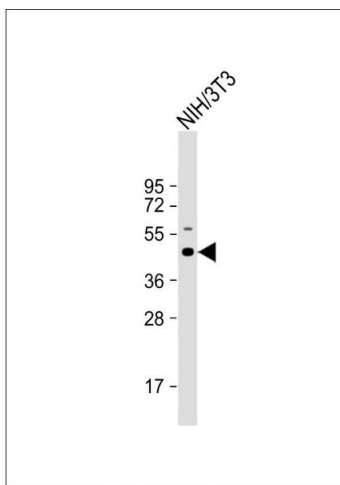
Ursini-Siegel, Cory, Zuo, Hardy, Rexhepaj, Lam, Schade, Jirstrom, Bjur, Piccirillo, Denardo, Coussens, Brennan, Gallagher, Park, Pawson, Hallett, Muller: "Receptor tyrosine kinase signaling favors a protumorigenic state in breast cancer cells by inhibiting the adaptive immune response." in: **Cancer research**, Vol. 70, Issue 20, pp. 7776-87, (2010) ([PubMed](#)).

Ranieri, Fusco, Panieri, Labate, Mele, Tesori, Ferrara, Maulucci, De Spirito, Martorana, Galeotti, Pani: "Mammalian life-span determinant p66shcA mediates obesity-induced insulin resistance." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 107, Issue 30, pp. 13420-5, (2010) ([PubMed](#)).

Ginés, Paoletti, Alberch: "Impaired TrkB-mediated ERK1/2 activation in huntington disease knock-in striatal cells involves reduced p52/p46 Shc expression." in: **The Journal of biological chemistry**, Vol. 285, Issue 28, pp. 21537-48, (2010) ([PubMed](#)).

Ma, Liu, Wu, Terada: "p66(Shc) restrains Ras hyperactivation and suppresses metastatic behavior." in: **Oncogene**, Vol. 29, Issue 41, pp. 5559-67, (2010) ([PubMed](#)).

Images



Western Blotting

Image 1. Anti-Mouse Shc1 Antibody (Center) at 1:1000 dilution + NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.