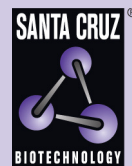


## c-Src (N-16): sc-19



The Power to Question

## BACKGROUND

The major translational products of the Src gene family are membrane-associated tyrosine protein kinases that lack transmembrane and external amino acid sequences. By virtue of their common structural motifs, the Src family is composed of nine members in vertebrates, including c-Src, c-Yes, Fgr, Yrk, Fyn, Lyn, Hck, Lck and Blk. Src family kinases, which contain an amino-terminal cell membrane anchor followed by SH3 and SH2 domains, transduce signals that are involved in the control of a variety of cellular processes, including proliferation, differentiation, motility and adhesion. Src family members are normally maintained in an inactive state and can be activated transiently during cellular events such as mitosis. Different subcellular locations of Src family kinases may be important for the regulation of specific cellular processes, such as mitogenesis, cytoskeletal organization and membrane trafficking. c-Src (also designated pp60Src, Src p60 and proto-oncogene tyrosine protein kinase Src) is expressed in a broad range of tissue and cell types, although the highest levels of c-Src are detected in neuronal tissues and platelets. c-Src may play a role in events associated with both neuronal differentiation and maintenance of mature neuronal cell functions.

## CHROMOSOMAL LOCATION

Genetic locus: SRC (human) mapping to 20q11.23; Src (mouse) mapping to 2 H1.

## SOURCE

c-Src (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of c-Src of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-19 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as phycoerythrin (sc-19 PE) conjugate for flow cytometry, 100 tests; and available as agarose (sc-19 AC) conjugate for immunoprecipitation, 500 µg/0.25 ml agarose in 1 ml.

## APPLICATIONS

c-Src (N-16) is recommended for detection of c-Src of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

c-Src (N-16) is also recommended for detection of c-Src in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for c-Src siRNA (h): sc-29228, c-Src siRNA (m): sc-29859, c-Src shRNA Plasmid (h): sc-29228-SH, c-Src shRNA Plasmid (m): sc-29859-SH, c-Src shRNA (h) Lentiviral Particles: sc-29228-V and c-Src shRNA (m) Lentiviral Particles: sc-29859-V.

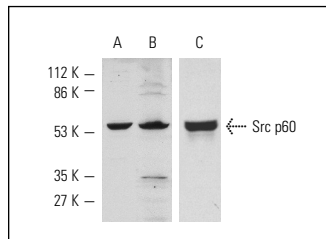
Molecular Weight of c-Src: 60 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

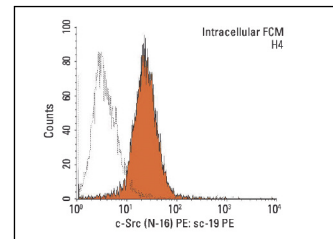
## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## DATA



Western blot analysis of Src p60 expression in WEHI-231 (A) and NIH/3T3 transformed with Src (B,C). Antibodies tested include c-Src (SRC 2): sc-18 (A), c-Src (N-16): sc-19 (B) and c-Src (B-12): sc-8056 (C).



c-Src (N-16) PE: sc-19 PE. Intracellular FCM analysis of fixed and permeabilized H4 cells. Black line histogram represents the isotype control, normal rabbit IgG: sc-3871.

## SELECT PRODUCT CITATIONS

- Wang, Y.T., et al. 1994. Regulation of NMDA receptors by tyrosine kinases and phosphatases. *Nature* 369: 233-235.
- Sandoval, Y.H., et al. 2011. Transactivation of epidermal growth factor receptor by enhanced levels of endogenous angiotensin II contributes to the overexpression of G<sub>iα</sub> proteins in vascular smooth muscle cells from SHR. *Cell. Signal.* 23: 1716-1726.
- Chen, S.Y., et al. 2011. zVAD-induced autophagic cell death requires c-Src-dependent ERK and JNK activation and reactive oxygen species generation. *Autophagy* 7: 217-228.
- Li, X., et al. 2011. Calcineurin-NFAT signaling critically regulates early lineage specification in mouse embryonic stem cells and embryos. *Cell Stem Cell* 8: 46-58.
- Lányi, Á., et al. 2011. The homolog of the five SH3-domain protein (HOF1/SH3PXD2B) regulates lamellipodia formation and cell spreading. *PLoS ONE* 6: e23653.
- Cattaneo, F., et al. 2011. NADPH-oxidase-dependent reactive oxygen species mediate EGFR transactivation by FPRL1 in WKYMVm-stimulated human lung cancer cells. *Free Radic. Biol. Med.* 51: 1126-1136.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.



Try **c-Src (B-12): sc-8056** or **c-Src (H-12): sc-5266**, our highly recommended monoclonal alternatives to c-Src (N-16). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **c-Src (B-12): sc-8056**.