

c-Src (SRC 2): sc-18

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.

SOURCE

c-Src (SRC 2) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Fyn p59 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-18 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-18 AC, 500 µg/0.25 ml agarose in 1 ml.

Available azide-free for biological studies, sc-18 L, 200 µg/0.1 ml.

APPLICATIONS

c-Src (SRC 2) is recommended for detection of c-Src, Yes p62, Fyn p59, c-Fgr p55 and c-Src-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

c-Src (SRC 2) is also recommended for detection of c-Src, Yes p62, Fyn p59, c-Fgr p55 and c-Src-2 in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of c-Src: 60 kDa.

Positive Controls: c-Src (m): 293T Lysate: sc-126521, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

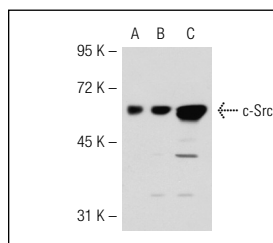
STORAGE

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

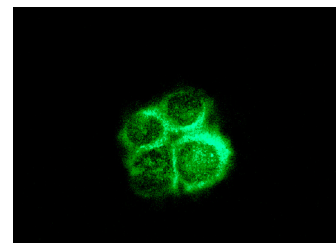
RESEARCH USE

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

DATA



c-Src (SRC 2): sc-18. Western blot analysis of c-Src expression in non-transfected 293T: sc-117752 (A), mouse c-Src transfected 293T: sc-126521 (B) and HeLa (C) whole cell lysates.



c-Src (SRC 2): sc-18. Immunofluorescence staining of methanol-fixed WEHI-231 cells showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

- Schlaepfer, D., et al. 1997. Focal adhesion kinase overexpression enhances Ras-dependent integrin signaling to ERK 2 mitogen activated protein kinase through interactions with and activation of c-Src. *J. Biol. Chem.* 272: 13189-13195.
- Carver, K.C., et al. 2010. Prolactin enhances insulin-like growth factor I receptor phosphorylation by decreasing its association with the tyrosine phosphatase SHP-2 in MCF-7 breast cancer cells. *J. Biol. Chem.* 285: 8003-8012.
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- Lyu, MA., et al. 2010. The rGel/BlyS fusion toxin inhibits diffuse large B-cell lymphoma growth *in vitro* and *in vivo*. *Neoplasia* 12: 366-375.
- Barash, U., et al. 2010. A novel human heparanase splice variant, T5, endowed with protumorigenic characteristics. *FASEB J.* 24: 1239-1248.
- Schneider, S., et al. 2011. Complex cellular responses of *Helicobacter pylori*-colonized gastric adenocarcinoma cells. *Infect. Immun.* 79: 2362-2371.
- Tung, W.H., et al. 2011. Enterovirus 71 modulates a COX-2/PGE2/cAMP-dependent viral replication in human neuroblastoma cells: role of the c-Src/EGFR/p42/p44 MAPK/CREB signaling pathway. *J. Cell. Biochem.* 112: 559-570.
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