

# c-Yes (H-95): sc-28883

## BACKGROUND

Src is the human homolog of the v-Src gene of the Rous sarcoma virus, also known as avian sarcoma virus or ASV. Src is the first proto-oncogenic non-receptor tyrosine kinase characterized in human. By virtue of common structural motifs, the Src family is composed of nine members in vertebrates, including Src, Yes, Fgr, Frk, Fyn, Lyn, Hck, Lck and Blk. Src-family kinases transduce signals that control a variety of cellular processes, including proliferation, differentiation, motility and adhesion. Src-family kinases contain an amino terminal cell membrane anchor followed by an SH3 domain and an SH2 domain involved in modular association and activation, respectively. Human c-Yes is the cellular homolog of the Yamaguchi sarcoma virus oncogene, Yes1. The human c-Yes gene maps to chromosome 18p11.32 and encodes a 543 amino acid, 62 kDa protein. c-Src and c-Yes kinases are over 80% homologous outside of unique amino termini and their respective SH3 and SH2 domains are capable of directing specificity in substrate binding.

## REFERENCES

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2. Semba, K., et al. 1985. Location of the c-Yes gene on the human chromosome and its expression in various tissues. *Science* 227: 1038-1040.
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4. Tatossyan, A.G., et al. 2000. Kinases of the Src family: structure and functions. *Biochemistry* 65: 49-58.
5. Bjorge, J.D., et al. 2000. Selected glimpses into the activation and function of Src kinase. *Oncogene* 19: 5620-5635.
6. Korade-Mirnics, Z., et al. 2000. Src kinase-mediated signaling in leukocytes. *J. Leukoc. Biol.* 68: 603-613.
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8. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 137025. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
9. LocusLink Report (LocusID: 7525). <http://www.ncbi.nlm.nih.gov/LocusLink/>.

## CHROMOSOMAL LOCATION

Genetic locus: YES1 (human) mapping to 18p11.32; Yes1 (mouse) mapping to 5 B1.

## SOURCE

c-Yes (H-95) is a rabbit polyclonal antibody raised against amino acids 1-95 mapping at the N-terminus of c-Yes 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.

## APPLICATIONS

c-Yes (H-95) is recommended for detection of c-Yes p61 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).

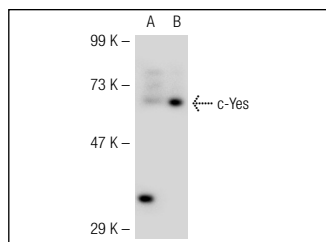
c-Yes (H-95) is also recommended for detection of c-Yes p61 in additional species, including equine and canine.

Suitable for use as control antibody for c-Yes siRNA (h): sc-29860, c-Yes siRNA (m): sc-29861, c-Yes shRNA Plasmid (h): sc-29860-SH, c-Yes shRNA Plasmid (m): sc-29861-SH, c-Yes shRNA (h) Lentiviral Particles: sc-29860-V and c-Yes shRNA (m) Lentiviral Particles: sc-29861-V.

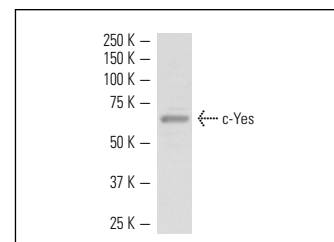
Molecular Weight of c-Yes: 62 kDa.

Positive Controls: C32 whole cell lysate: sc-2205, human platelet whole cell lysate: sc-363773 or c-Yes (m): 293T Lysate: sc-118893.

## DATA



c-Yes (H-95): sc-28883. Western blot analysis of c-Yes expression in non-transfected: sc-117752 (A) and mouse c-Yes transfected: sc-118893 (B) 293T whole cell lysates.



c-Yes (H-95): sc-28883. Western blot analysis of c-Yes expression in human platelet whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Xiao, X., et al. 2011. c-Yes regulates cell adhesion at the blood-testis barrier and the apical ectoplasmic specialization in the seminiferous epithelium of rat testes. *Int. J. Biochem. Cell Biol.* 43: 651-665.

## 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.

**MONOS**  
Satisfaction  
Guaranteed

Try **c-Yes (C-10): sc-46674** or **c-Yes (B-11): sc-515336**, our highly recommended monoclonal alternatives to c-Yes (H-95).