c-Yes (2F3E6): sc-130055



The Power to Question

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 aminoterminal 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 protein. c-Src and c-Yes kinases are more than 80% homologous outside of unique amino-termini. Their respective SH3 and SH2 domains are capable of directing specificity in substrate binding.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

c-Yes (2F3E6) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 10-193 of c-Yes of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μg lgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

c-Yes (2F3E6) is recommended for detection of c-Yes of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

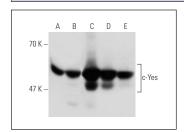
Molecular Weight of c-Yes: 62 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, C32 whole cell lysate: sc-2205 or JAR cell lysate: sc-2276.

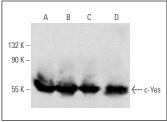
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker^{IM} Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA







c-Yes (2F3E6): sc-130055. Western blot analysis of c-Yes expression in Jurkat ($\bf A$), NIH/3T3 ($\bf B$), CTLL-2 ($\bf C$) and L8 ($\bf D$) whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.