Fyn (6D406): sc-71133



The Power to Question

BACKGROUND

Src is the human homolog of the v-Src gene of the Rous sarcoma virus, also called avian sarcoma virus or ASV. Src was the first proto-oncogenic nonreceptor 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 are involved in the control of a variety of cellular processes including proliferation, differentiation, motility and adhesion. Srcfamily kinases contain an amino-terminal cell membrane anchor followed by an SH3 domain and an SH2 domain involved in modular association and activation, respectively. Src-family kinases are normally maintained in an inactive state and can be activated transiently during cellular events such as mitosis. Different subcellular localizations of Src family kinases may be important for the regulation of specific cellular processes such as mitogenesis, cytoskeletal organization and membrane trafficking. Fyn and Lck kinases play a key role in T cell antigen receptor (TCR) signaling. The human Fyn gene maps to chromosome 6g21 and encodes a 537 amino acid protein.

REFERENCES

- Sakaguchi, A.Y., et al. 1982. Organization of human proto-oncogenes. Am. J. Hum. Genet. 34: 175.
- Hibbs, M.L., et al. 1997. Lyn, a Src-like tyrosine kinase. Int. J. Biochem. Cell Biol. 29: 397-400.
- 3. Williams, J.C., et al. 1998. Insights into Src kinase functions: structural comparisons. Trends Biochem. Sci. 23: 179-184.
- Tatosyan, 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.
- Korade-Mirnics, Z., et al. 2000. Src kinase-mediated signaling in leukocytes.
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CHROMOSOMAL LOCATION

Genetic locus: FYN (human) mapping to 6q21; Fyn (mouse) mapping to 10 B1.

SOURCE

Fyn (6D406) is a mouse monoclonal antibody raised against amino acids 7-176 of Fyn of human origin.

PRODUCT

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

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.

APPLICATIONS

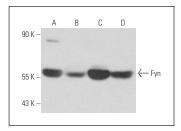
Fyn (6D406) is recommended for detection of Fyn of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Fyn siRNA (h): sc-29321, Fyn siRNA (m): sc-35425, Fyn shRNA Plasmid (h): sc-29321-SH, Fyn shRNA Plasmid (m): sc-35425-SH, Fyn shRNA (h) Lentiviral Particles: sc-29321-V and Fyn shRNA (m) Lentiviral Particles: sc-35425-V.

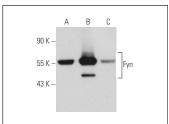
Molecular Weight of Fyn: 59 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HuT 78 whole cell lysate: sc-2208 or K-562 whole cell lysate: sc-2203.

DATA







Fyn (6D406): sc-71133. Western blot analysis of Fyr expression in non-transfected 293: sc-110760 (A), human Fyn transfected 293: sc-158527 (B) and NIH/3T3 (C) whole cell lysates.

PROTOCOLS

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



See **Fyn (15): sc-434** for Fyn antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647.

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