



DB023: c-Src (A16)

Background:

The Src gene family is represented by at least eight different protein tyrosine kinases belonging to the non-receptor tyrosine kinases (1,2). These protein tyrosine kinases are important regulators of many cellular processes, including cytoskeletal organization, cell-cell contact, DNA synthesis, and cellular proliferation (1-3). Members of this group of proteins include c-Src, c-Yes, Fyn, Lck, Lyn, Hck, Blk and c-Fgr. The proto-oncogene c-Src is the prototype member of this gene family and is expressed in a broad range of tissues and cells (4,5). Elevated c-Src tyrosine kinase activity has been found in many types of human cancers, most notably in breast carcinomas (6,7). The activity of c-Src in these human cancers has been attributed to increases c-Src expression, elevated c-Src specific activity and activating mutations in c-Src (6,7).

Origin:

c-Src (A16) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the amino terminus of human c-Src p60.

Product Details:

Each vial contains 200 µg/ml of affinity purified rabbit IgG, c-Src (A16) DB023, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

Competition Studies:

A blocking peptide is also available, DB023P, for use in competition studies. Each vial contains 100 µg of peptide in 0.5 ml PBS with 0.1% sodium azide and 100 µg BSA.

Specificity:

c-Src (A16) DB023 reacts with c-Src p60 of mouse, rat and human origin by western blotting and immunoprecipitation. Western blotting starting dilution: 1:200.

Storage:

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

References:

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3. Ingraham CA, Cox ME, Ward DC, Fults DW, Maness PF. 1989. c-Src and other proto-oncogenes implicated in neuronal differentiation. *Mol Chem Neuropathol* 10(1):1-14.
4. Wiestler OD, Walter G. 1988. Developmental expression of two forms of pp60c-src in mouse brain. *Mol Cell Biol* 8(1):502-504.
5. Yang XM, Martinez R, Le Beau J, Wiestler O, Walter G. Evolutionary expression of the neuronal form of the src protein. *Proc Natl Acad Sci USA* 86(12):4751-4755.
6. Bjorge JD, Pang A, Fujita DJ. 2000. Identification of protein-tyrosine phosphatase 1B as the major tyrosine phosphatase activity capable of dephosphorylating and activating c-Src in several human breast cancer cell lines. *J Biol Chem* 275(52):41439-41446.
7. Hung W, Elliot B. 2001. Co-operative effect of c-Src tyrosine kinase and Stat3 in activation of hepatocyte growth factor expression in mammary carcinoma cells. *J Biol Chem* 276(15):12395-12403.