

p-Jun B (Ser 79): sc-101725

BACKGROUND

The c-Jun proto-oncogene was first identified as the cellular homolog of the avian sarcoma virus v-Jun oncogene. The c-Jun protein along with c-Fos is a component of the AP-1 transcriptional complex. c-Jun can form either Jun/Jun homodimers or Jun/Fos heterodimers via the leucine repeats in both proteins. Homo- and heterodimers bind to the TGACTCA consensus sequence present in numerous promoters and initially identified as the phorbol ester tumor promoter response element (TRE). Two additional genes, Jun B and Jun D have been shown to be almost identical to c-Jun in their C-terminal regions, which are involved in dimerization and DNA binding, whereas their N-terminal domains, which are involved in transcriptional activation, diverge. All three form heterodimers among themselves and with c-Fos and other members of the Fos gene family.

REFERENCES

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3. Curran, T., et al. 1988. Fos and Jun: the AP-1 connection. Cell 55: 395-397.
4. Ryder, K., et al. 1988. Induction of proto-oncogene c-Jun by serum growth factors. Proc. Natl. Acad. Sci. USA 85: 8464-8467.
5. Ryder, K., et al. 1989. Jun-D: a third member of the Jun gene family. Proc. Natl. Acad. Sci. USA 86: 1500-1503.
6. Cohen, D.R., et al. 1989. The product of a Fos-related gene, Fra-1, binds cooperatively to the AP-1 site with Jun: transcription factor AP-1 is comprised of multiple protein complexes. Genes Dev. 3: 173-184.
7. Vogt, P.K., et al. 1990. Jun: oncogene and transcription factor. Adv. Cancer Res. 55: 1-35.
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9. Castellazzi, M., et al. 1991. Overexpression of c-Jun, Jun B, or Jun D affects cell growth differently. Proc. Natl. Acad. Sci. USA 88: 8890-8894.

CHROMOSOMAL LOCATION

Genetic locus: JUNB (human) mapping to 19p13.13; Junb (mouse) mapping to 8 C3.

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 or our catalog for detailed protocols and support products.

SOURCE

p-Jun B (Ser 79) is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Ser 79 of Jun B of human origin.

PRODUCT

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

APPLICATIONS

p-Jun B (Ser 79) is recommended for detection of Ser 79 phosphorylated Jun B of mouse, rat and human origin by immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

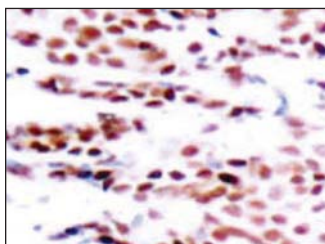
Suitable for use as control antibody for Jun B siRNA (h): sc-35726 and Jun B siRNA (m): sc-35727.

Molecular Weight of p-Jun B: 39 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



p-Jun B (Ser 79): sc-101725. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue showing nuclear localization.

RESEARCH USE

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