SANTA CRUZ BIOTECHNOLOGY, INC.

p-Jun B (Ser 259): sc-101724

SANTA CRUZ BIOTECHNOLOGY
The Power to Question

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.

CHROMOSOMAL LOCATION

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

SOURCE

p-Jun B (Ser 259) is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Ser 259 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.

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

p-Jun B (Ser 259) is recommended for detection of Ser 259 phosphorylated Jun B of human origin and correspondingly phosphorylated Ser 256 of mouse and rat 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 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, Jun B siRNA (m): sc-35727, Jun B shRNA Plasmid (h): sc-35726-SH, Jun B shRNA Plasmid (m): sc-35727-SH, Jun B shRNA (h) Lentiviral Particles: sc-35726-V and Jun B shRNA (m) Lentiviral Particles: sc-35727-V.

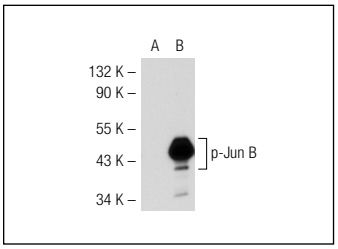
Molecular Weight of p-Jun B: 39 kDa.

Positive Controls: Jun B (m): 293T Lysate: sc-121169 or Jun B (h): 293T Lysate: sc-159648.

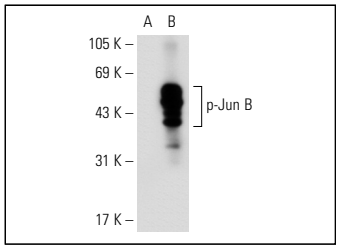
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent), Western Blotting Luminol Reagent: sc-2048 and Lambda Phosphatase: sc-200312A. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

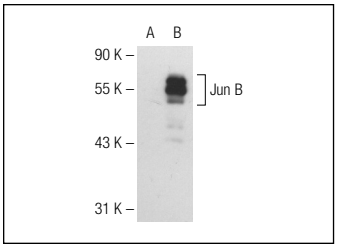
DATA



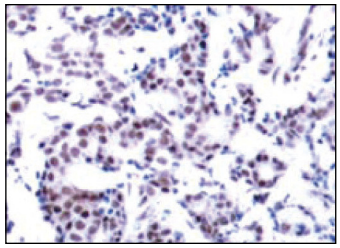
p-Jun B (Ser 259): sc-101724. Western blot analysis of Jun B phosphorylation in non-transfected: sc-117752 (**A**) and mouse Jun B transfected: sc-121169 (**B**) 293T whole cell lysates.



p-Jun B (Ser 259): sc-101724. Western blot analysis of Jun B phosphorylation in non-transfected: sc-117752 (**A**) and human Jun B transfected: sc-159648 (**B**) 293T whole cell lysates.



p-Jun B (Ser 259): sc-101724. Western blot analysis of Jun B phosphorylation in non-transfected: sc-117752 (**A**) and human Jun B transfected: sc-170824 (**B**) 293T whole cell lysates.



p-Jun B (Ser 259): sc-101724. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Lluis, J.M., et al. 2010. TAK1 is required for survival of mouse fibroblasts treated with TRAIL, and does so by NFκB dependent induction of cFLIPL. PLoS ONE 5: e8620.

PROTOCOLS

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