

Jun B (C-11): sc-8051

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

Jun B (C-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 200-222 near the C-terminus of Jun B of mouse origin.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8051 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-8051 AC, 500 µg/0.25 ml agarose in 1 ml; as TransCruz reagent for Gel Supershift and ChIP applications, sc-8051 X, 200 µg/0.1 ml; as fluorescein (sc-8051 FITC) or rhodamine (sc-8051 TRITC) con-jugates for use in immunofluorescence, 200 µg/ml; as Alexa Fluor® 405 (sc-8051 AF405), Alexa Fluor® 488 (sc-8051 AF488) or Alexa Fluor® 647 (sc-8051 AF647) conjugates for immunofluorescence; 100 µg/2 ml.

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APPLICATIONS

Jun B (C-11) is recommended for detection of Jun B of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

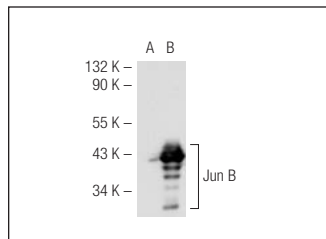
Suitable for use as control antibody for Jun B siRNA (h): sc-35726, Jun B siRNA (m): sc-35727, Jun B shRNA Plasmid (h): sc-35726-SH, Jun B shRNA Plasmid (m): sc-35727-SH, Jun B shRNA (h) Lentiviral Particles: sc-35726-V and Jun B shRNA (m) Lentiviral Particles: sc-35727-V.

Jun B (C-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

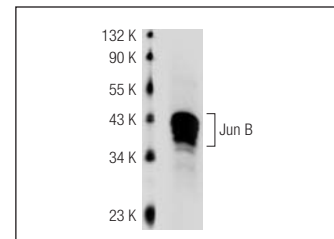
STORAGE

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

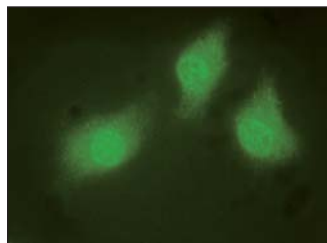
DATA



Jun B (C-11): sc-8051. Western blot analysis of Jun B expression in non-transfected: sc-117752 (A) and mouse Jun B transfected: sc-121169 (B) 293T whole cell lysates.



Jun B (C-11): sc-8051. Western blot analysis of Jun B expression in HeLa whole cell lysate.



Jun B (C-11): sc-8051. Immunofluorescence staining of methanol-fixed KNRK cells showing nuclear localization.



Jun B (C-11): sc-8051. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing nuclear staining of surface epithelial cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

- Hu, Y., et al. 2002. Jun B potentiates function of BRCA1 activation domain 1 (AD1) through a coiled-coil-mediated interaction. *Genes Dev.* 16: 1509-1517.
- Bai, R.Y., et al. 2002. SMIF, a Smad4-interacting protein that functions as a co-activator in TGFβ signalling. *Nat. Cell Biol.* 4: 181-190.
- Zada, A.A., et al. 2003. Downregulation of c-Jun expression and cell cycle regulatory molecules in acute myeloid leukemia cells upon CD44 ligation. *Oncogene* 22: 2296-2308.
- Choi, M., et al. 2003. Inhibition of NFκB by a TAT-NEMO-binding domain peptide accelerates constitutive apoptosis and abrogates LPS-delayed neutrophil apoptosis. *Blood* 102: 2259-2267.
- Watanabe, M., et al. 2003. AP-1 mediated relief of repressive activity of the CD30 promoter microsatellite in Hodgkin and Reed-Sternberg cells. *Am. J. Pathol.* 163: 633-641.
- Mao, X., et al. 2003. Genetic alterations in primary cutaneous CD30+ anaplastic large cell lymphoma. *Genes Chromosomes Cancer* 37: 176-185.

RESEARCH USE

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