Jun D (D-9): sc-271938

**BACKGROUND**

The activator protein-1 (AP-1) transcription factor consists of either Jun/Jun homodimers or Fos/Jun heterodimeric complexes. 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). 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. Studies suggest that the two forms of Jun D may be due to internal initiation of translation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: JUND (human) mapping to 19p13.11; JunD (mouse) mapping to 8 B3.3.

**SOURCE**

Jun D (D-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 316-341 at the C-terminus of Jun D of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271938 X, 200 µg/0.1 ml.

Jun D (D-9) is available conjugated to agarose (sc-271938 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271938 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271938 PE), fluorescein (sc-271938 FITC), Alexa Fluor® 546 (sc-271938 AF546), Alexa Fluor® 594 (sc-271938 AF594) or Alexa Fluor® 647 (sc-271938 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271938 AF680) or Alexa Fluor® 790 (sc-271938 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271938 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

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**STORAGE**

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

**APPLICATIONS**

Jun D (D-9) is recommended for detection of Jun D of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Jun D (D-9) is also recommended for detection of Jun D in additional species, including bovine.


Jun D (D-9) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Jun D isoforms: 35/40 kDa.

Positive Controls: SK-MEL-24 whole cell lysate: sc-364259, SOL8 cell lysate: sc-2249 or C2C12 whole cell lysate: sc-364188.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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