

c-Jun (h): CHO Lysate: sc-110019

BACKGROUND

Genes belonging to the Jun and Fos oncogene families encode nuclear proteins that are found to be associated with a number of transcriptional complexes. The c-Jun protein is a major component of the transcription factor AP-1, originally shown to mediate phorbol ester tumor promoter (TPA)-induced expression of responsive genes through the TPA response element (TRE). The Jun proteins form homo- and heterodimers which bind the TRE, while Fos proteins are active only as heterodimers with any of the Jun proteins. Fos/Jun heterodimers have a much higher affinity for the TRE than Jun homodimers. Ha-Ras augments c-Jun activity and stimulates phosphorylation of its activation domain. An inhibitor of Fos/Jun function, termed IP-1, associates with Fos and Jun and is inactivated upon phosphorylation induced by the cAMP-dependent protein kinase A (PKA).

REFERENCES

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4. Renz, M., et al. 1987. Chromatin association and DNA-binding properties of the c-Fos proto-oncogene product. *Nucleic Acids Res.* 15: 277-292.
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7. Auwerx, J., et al. 1991. IP-1: a dominant inhibitor of Fos/Jun whose activity is modulated by phosphorylation. *Cell* 64: 983-993.
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CHROMOSOMAL LOCATION

Genetic locus: JUN (human) mapping to 1p32.1.

PRODUCT

c-Jun (h): CHO Lysate represents a lysate of human c-Jun transfected CHO cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

c-Jun (h): CHO Lysate is suitable as a Western Blotting positive control for human reactive c-Jun antibodies. Recommended use: 10-20 µl per lane.

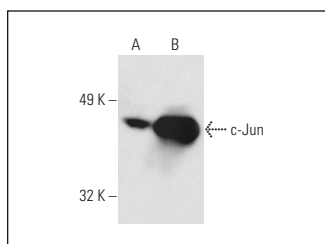
Control CHO Lysate: sc-117750 is available as a Western Blotting negative control lysate derived from non-transfected CHO cells.

c-Jun (G-4): sc-74543 is recommended as a positive control antibody for Western Blot analysis of enhanced human c-Jun expression in c-Jun transfected CHO cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



c-Jun (G-4): sc-74543. Western blot analysis of c-Jun expression in non-transfected: sc-117750 (A) and human c-Jun transfected: sc-110019 (B) CHO whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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