# c-Jun (h): 293T Lysate: sc-159456



The Power to Question

# **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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- Distel, R.J., et al. 1987. Nucleoprotein complexes that regulate gene expression in adipocyte differentiation: direct participation of c-Fos. Cell 49: 835-844.
- 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.
- Angel, P., et al. 1988. Oncogene Jun encodes a sequence-specific transactivator similar to AP-1. Nature 332: 166-171.
- Franza, B.R., et al. 1988. The Fos complex and Fos related antigens recognize sequence elements that contain AP-1 binding sites. Science 239: 1150-1153.
- 7. Auwerx, J., et al. 1991. IP-1: a dominant inhibitor of Fos/Jun whose activity is modulated by phosphorylation. Cell 64: 983-993.

# **CHROMOSOMAL LOCATION**

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

# **PRODUCT**

c-Jun (h): 293T Lysate represents a lysate of human c-Jun transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

#### **APPLICATIONS**

c-Jun (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive c-Jun antibodies.

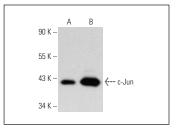
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

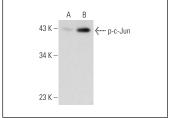
c-Jun (G-4): sc-74543 is recommended as a positive control antibody for Western Blot analysis of enhanced human c-Jun expression in c-Jun transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> 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-117752 (**A**) and human c-Jun transfected: sc-159456 (**B**) 293T whole cell Ivsates.

p-c-Jun (KM-1): sc-822. Western blot analysis of c-Jun phosphorylation in non-transfected: sc-117752 (A) and human c-Jun transfected: sc-159456 (B) 293T whole cell lysates.

# **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.

#### **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.

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