SANTA CRUZ BIOTECHNOLOGY, INC.

JAB1 (1-334): sc-4429 WB

SANTA CRUZ BIOTECHNOLOGY

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, but the 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. The coactivator of Jun, designated JAB1 (for Jun-activation domain-binding protein), interacts with c-Jun and Jun D, but not with Jun B or v-Jun. This interaction enhances the transactivating ability of Jun proteins by stabilizing their binding to the TRE.

REFERENCES

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SOURCE

JAB1 (1-334) is expressed in *E. coli* as a 64 kDa tagged fusion protein corresponding to amino acids 1-334 of JAB1 of mouse origin.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

PRODUCT

JAB1 (1-334) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

JAB1 (1-334) is suitable as a Western blotting control for sc-6271, sc-9307, sc-9074 and sc-13157.

RESEARCH USE

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