

JAB1 (N-17): sc-6271



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. The gene encoding JAB1 maps to human chromosome 8q13.1.

CHROMOSOMAL LOCATION

Genetic locus: COPS5 (human) mapping to 8q13.1; Cops5 (mouse) mapping to 1 A2.

SOURCE

JAB1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of JAB1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-6271 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6271 X, 200 µg/0.1 ml.

APPLICATIONS

JAB1 (N-17) is recommended for detection of JAB1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

JAB1 (N-17) is also recommended for detection of JAB1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for JAB1 siRNA (h): sc-35717, JAB1 siRNA (m): sc-35718, JAB1 shRNA Plasmid (h): sc-35717-SH, JAB1 shRNA Plasmid (m): sc-35718-SH, JAB1 shRNA (h) Lentiviral Particles: sc-35717-V and JAB1 shRNA (m) Lentiviral Particles: sc-35718-V.

JAB1 (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

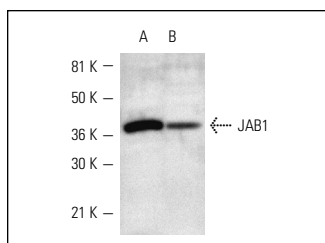
Molecular Weight of JAB1: 38 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or mouse embryo extract.

RESEARCH USE

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

DATA



JAB1 (N-17): sc-6271. Western blot analysis of JAB1 expression in mouse embryo (A) and rat liver (B) extracts.

SELECT PRODUCT CITATIONS

- Caballero, O.L., et al. 2002. Interaction and colocalization of PGP9.5 with JAB1 and p27Kip1. *Oncogene* 21: 3003-3010.
- Arkenbout, E.K., et al. 2003. TR3 orphan receptor is expressed in vascular endothelial cells and mediates cell cycle arrest. *Arterioscler. Thromb. Vasc. Biol.* 23: 1535-1540.
- Takami, T., et al. 2005. Human homologue of maid is a useful marker protein in hepatocarcinogenesis. *Gastroenterology* 128: 1369-1380.
- Hung, Y.H., et al. 2009. 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) enhances invasiveness of lung cancer cells by up-regulating Contactin 1 via the $\alpha 7$ nicotinic acetylcholine receptor/ERK signaling pathway. *Chem. Biol. Interact.* 179: 154-159.
- Yang, K.T., et al. 2011. Bcr-Abl oncogene stimulates Jab1 expression via cooperative interaction of β -catenin and STAT1 in chronic myeloid leukemia cells. *J. Cell. Physiol.* 226: 2849-2856.

STORAGE

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



Try **JAB1 (B-7): sc-13157** or **JAB1 (G-10): sc-393725**, our highly recommended monoclonal alternatives to JAB1 (N-17). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **JAB1 (B-7): sc-13157**.