JunB (P169) Antibody

#3755 Store at -20°C

☑ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

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Entrez-Gene ID #3726
Swiss-Prot Acc. #P17275

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP, IF-IC	H, M, (R)	42, 43 kDa	Rabbit**
Endogenous			

Background: JunB is a basic region-leucine zipper (bZIP) transcription factor belonging to the Jun family that includes c-Jun and JunD. Jun family members homodimerize or heterodimerize with Fos and ATF proteins to form a functional transcription factor AP-1 (activator protein 1), whose activity is regulated by a variety of physiological and pathological stimuli such as growth factors, infections, and stess signals (1-4). While JunB sometimes antagonizes c-Jun transcription activity, it may functionally substitute for an induced absence of c-Jun during development in mice (5-7). JunB regulates the hematopoietic stem cell number and plays an important role in the pathogenesis of chronic myelogenous leukemia (CML) and acute myeloid leukemia (AML) (8,9).

Specificity/Sensitivity: JunB (P169) Antibody detects the endogenous level of total JunB protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Pro169 of human JunB. Antibodies are purified by peptide affinity chromatography.

Background References:

(1) Busch, S.J. and Sassone-Corsi, P. (1990) *Trends Genet.* 6, 36–40.

(2) Shaulian, E. and Karin, M. (2002) *Nat. Cell Biol.* 4, E131–136.

(3) Hess, J. et al. (2004) *J. Cell Sci.* 117, 5965–5973.

(4) Mechta-Grigoriou, F. et al. (2001) *Oncogene* 20, 2378–2389.

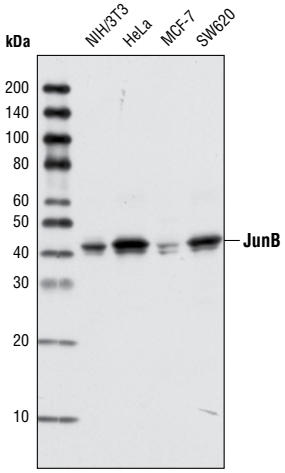
(5) Chiu, R. et al. (1989) *Cell* 59, 979–986.

(6) Schütte, J. et al. (1989) *Cell* 59, 987–997.

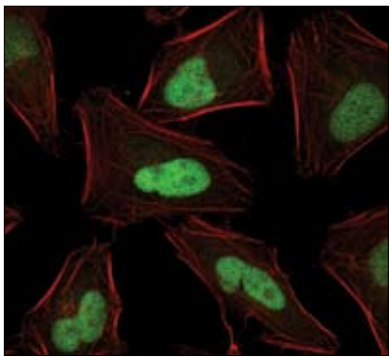
(7) Passegué, E. et al. (2002) *Nat. Genet.* 30, 158–166.

(8) Steidl, U. et al. (2006) *Nat. Genet.* 38, 1269–1277.

(9) Passegué, E. et al. (2004) *Cell* 119, 431–443.



Western blot analysis of total cell lysates from various cell lines using JunB (P169) Antibody.



Confocal immunofluorescent analysis of HeLa cells using JunB (P169) Antibody (green). Actin filaments have been labeled with Alexa Fluor® 555 phalloidin (red).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-IC)	1:25

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.