

#3753 Store at -20°C

# JunB (C37F9) Rabbit mAb



✓ 100 µl  
(10 western blots)

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rev. 01/04/11

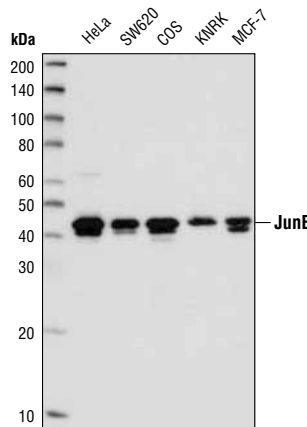
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IHC-P, IF-IC Endogenous	H, M, R, Mk	42, 43 kDa	Rabbit IgG**

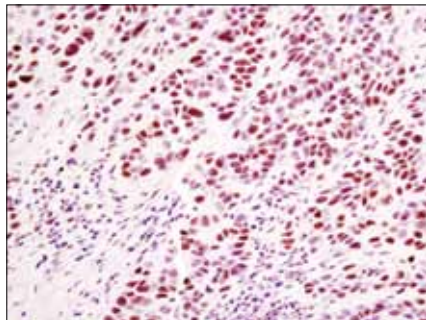
**Background:** JunB is a basic region-leucine zipper (bZIP) transcription factor belonging to the Jun family that includes c-Jun and JunD. Jun family members homodimerize or heterodimerize with Fos and ATF proteins to form a functional transcription factor AP-1 (activator protein 1), whose activity is regulated by a variety of physiological and pathological stimuli such as growth factors, infections, and stress signals (1-4). While JunB sometimes antagonizes c-Jun transcriptional activity, it may functionally substitute for 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 (C37F9) Rabbit mAb detects endogenous levels of total JunB protein.

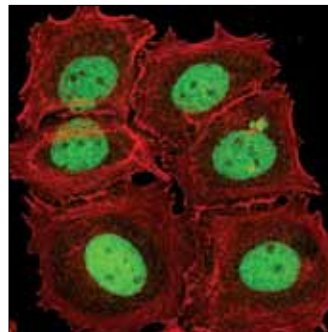
**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro169 of human JunB.



Western blot analysis of extracts from various cell lines using JunB (C37F9) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma using JunB (C37F9) Rabbit mAb in the presence of control peptide (upper) or antigen-specific peptide (lower).



Confocal immunofluorescent analysis of MCF-7 cells using JunB (C37F9) Rabbit mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red).

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

**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	1:100
Immunohistochemistry (Paraffin)	1:800
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Immunofluorescence (IF-IC)	1:200

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**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-E136.
- (3) Hess, J. et al. (2004) *J. Cell Sci.* 117, 5965-5973.
- (4) Mehta-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) Passequé, E. et al. (2002) *Nat. Genet.* 30, 158-166.
- (8) Steidl, U. et al. (2006) *Nat. Genet.* 38, 1269-1277.
- (9) Passequé, E. et al. (2004) *Cell* 119, 431-443.

**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.

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