

#3746 Store at -20°C

## JunB (G53) Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H	Endogenous	42, 43	Rabbit	#P17275	3726

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:50  
1:25

### 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.

### Specificity / Sensitivity

JunB (G53) Antibody detects endogenous levels of total JunB protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly53 of human JunB. Antibodies are purified by peptide affinity chromatography.

### 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 hematopoietic stem cell number and plays an important role in the pathogenesis of chronic myelogenous leukemia (CML) and acute myeloid leukemia (AML) (8,9).

### 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. 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. 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.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

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

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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