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JunB (G53) Antibody

Store at -20C
#3746

For Research Use Only. Not for Use in Diagnostic Procedures.

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

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

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

Cross-Reactivity Key

H: Human

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