Phospho-c-Jun (Ser63) (54B3) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #P05412	Entrez-Gene Id: 3725
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Phospho-c-Jun (Ser63) (54B3) Rabbit mAb (Biotinylated) detects endogenous levels of c-Jun only when phosphorylated at Ser63.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser63 of human c-Jun protein.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-c-Jun (Ser63) (54B3) Rabbit mAb #2361.				
Background		c-Jun is a member of the Jun family containing c-Jun, JunB, and JunD, and is a component of the transcription factor activator protein-1 (AP-1). AP-1 is composed of dimers of Fos, Jun, and ATF family members and binds to and activates transcription at TRE/AP-1 elements (reviewed in 1). Extracellular signals, including growth factors, chemokines, and stress, activate AP-1-dependent transcription. The transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 through SAPK/JNK (reviewed in 2). Knockout studies in mice have shown that c-Jun is essential for embryogenesis (3), and subsequent studies have demonstrated roles for c-Jun in various tissues and developmental processes, including axon regeneration (4), liver regeneration (5), and T cell development (6). AP-1 regulated genes exert diverse biological functions, including cell proliferation, differentiation, and apoptosis, as well as transformation, invasion and metastasis, depending on cell type and context (7-9). Other target genes regulate survival, as well as hypoxia and angiogenesis (8,10). Research studies have implicated c-Jun as a promising therapeutic target for cancer, vascular remodeling, acute inflammation, and rheumatoid arthritis (11,12).				
Background References		1. Jochum, W. et al. (2001) <i>Oncogene</i> 20, 2401-12. 2. Davis, R.J. (2000) <i>Cell</i> 103, 239-52. 3. Hilberg, F. et al. (1993) <i>Nature</i> 365, 179-81. 4. Raivich, G. et al. (2004) <i>Neuron</i> 43, 57-67. 5. Behrens, A. et al. (2002) <i>EMBO J</i> 21, 1782-90. 6. Riera-Sans, L. and Behrens, A. (2007) <i>J Immunol</i> 178, 5690-700. 7. Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62. 8. Shaulian, E. and Karin, M. (2002) <i>Nat Cell Biol</i> 4, E131-6. 9. Weiss, C. and Bohmann, D. (2004) <i>Cell Cycle</i> 3, 111-3. 10. Karamouzis, M.V. et al. (2007) <i>Mol Cancer Res</i> 5, 109-20. 11. Kim, S. and Iwao, H. (2003) <i>J Pharmacol Sci</i> 91, 177-81. 12. Dass, C.R. and Choong, P.F. (2008) <i>Pharmazie</i> 63, 411-4.				

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

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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