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



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit IgG	UniProt ID: #P05412	Entrez-Gene Id: 3725
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting		1:1000		
Storage	• • • • • • • • • • • • • • • • • • • •	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				
Specificity / Sensitivity Phospho-c-Jun (Ser63) (54B3) Rabbit phosphorylated at Ser63.			` '	nAb (Biotinylated) detects endogenous levels of c-Jun only when		
Source / Purificati	•	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser63 of human c-Jun protein.				
Product Description	antik	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.				

MW (kDa) 48

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

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- 4. Raivich, G. et al. (2004) Neuron 43, 57-67.
- 5. Behrens, A. et al. (2002) EMBO J 21, 1782-90.
- 6. Riera-Sans, L. and Behrens, A. (2007) J Immunol 178, 5690-700.
- 7. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62.
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- 9. Weiss, C. and Bohmann, D. (2004) Cell Cycle 3, 111-3.
- 10. Karamouzis, M.V. et al. (2007) Mol Cancer Res 5, 109-20.
- 11. Kim, S. and Iwao, H. (2003) J Pharmacol Sci 91, 177-81.
- 12. Dass, C.R. and Choong, P.F. (2008) Pharmazie 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.

1/1/24, 6:20 AM Phospho-c-Jun (Ser63) (54B3) Rabbit mAb (Biotinylated) (#5464) Datasheet Without Images Cell Signaling ...

Applications Key

Cross-Reactivity Key

WB: Western Blotting

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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