Store at -20C

315

c-Jun (L70B11) Mouse mAb C-Jun (L70B11) Mouse mAb Support: 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

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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 43, 48	Source/Isotype: Mouse IgG1	UniProt ID: #P05412	Entrez-Gene Id: 3725
Product Usage Information		Application Western Blotting		Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		c-Jun (L70B11) Mouse mAb detects endogenous levels of total c-Jun protein, regardless of phosphorylation state.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein corresponding to the amino-terminal sequence of human c-Jun protein.				
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		 Jochum, W. et al. (2001) Oncogene 20, 2401-12. Davis, R.J. (2000) Cell 103, 239-52. Hilberg, F. et al. (1993) Nature 365, 179-81. Raivich, G. et al. (2004) Neuron 43, 57-67. Behrens, A. et al. (2002) EMBO J 21, 1782-90. Riera-Sans, L. and Behrens, A. (2007) J Immunol 178, 5690-700. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62. Shaulian, E. and Karin, M. (2002) Nat Cell Biol 4, E131-6. Weiss, C. and Bohmann, D. (2004) Cell Cycle 3, 111-3. Karamouzis, M.V. et al. (2007) Mol Cancer Res 5, 109-20. Kim, S. and Iwao, H. (2003) J Pharmacol Sci 91, 177-81. Dass, C.R. and Choong, P.F. (2008) Pharmazie 63, 411-4. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 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 Mk: Monkey				
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