

#2315 Store at -20C

## c-Jun (L70B11) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	43, 48	Mouse IgG1	#P05412	3725

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	c-Jun (L70B11) Mouse mAb detects endogenous levels of total c-Jun protein, regardless of phosphorylation state.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a recombinant protein corresponding to the amino-terminal sequence of human c-Jun protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Jochum, W. et al. (2001) <i>Oncogene</i> 20, 2401-12.</li> <li>2. Davis, R.J. (2000) <i>Cell</i> 103, 239-52.</li> <li>3. Hilberg, F. et al. (1993) <i>Nature</i> 365, 179-81.</li> <li>4. Raivich, G. et al. (2004) <i>Neuron</i> 43, 57-67.</li> <li>5. Behrens, A. et al. (2002) <i>EMBO J</i> 21, 1782-90.</li> <li>6. Riera-Sans, L. and Behrens, A. (2007) <i>J Immunol</i> 178, 5690-700.</li> <li>7. Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62.</li> <li>8. Shaulian, E. and Karin, M. (2002) <i>Nat Cell Biol</i> 4, E131-6.</li> <li>9. Weiss, C. and Bohmann, D. (2004) <i>Cell Cycle</i> 3, 111-3.</li> <li>10. Karamouzis, M.V. et al. (2007) <i>Mol Cancer Res</i> 5, 109-20.</li> <li>11. Kim, S. and Iwao, H. (2003) <i>J Pharmacol Sci</i> 91, 177-81.</li> <li>12. Dass, C.R. and Choong, P.F. (2008) <i>Pharmazie</i> 63, 411-4.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected

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### **Limited Uses**

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