

## Phospho-c-Jun (Ser73) (D47G9) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)



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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M R Mk Pg	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P05412	Entrez-Gene Id: 3725
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/P	ermeabilized)		<b>Dilution</b> 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at $4^{\circ}$ C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-c-Jun (Ser73) (D47G9) $XP^{\otimes}$ Rabbit mAb (Alexa Fluor $^{\otimes}$ 488 Conjugate) detects endogenous levels of c-Jun only when phosphorylated at Ser73.			
Species predicte based on 100% s homology	ed to react sequence	Bovine			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser73 of human c-Jun protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-c-Jun (Ser73) (D47G9) XP <sup>®</sup> Rabbit mAb #3270.			
c-Jun is a member of the Jun family containing c-Jun, JunB, and JunD, and is a comp transcription factor activator protein-1 (AP-1). AP-1 is composed of dimers of Fos, Jun members and binds to and activates transcription at TRE/AP-1 elements (reviewed signals, including growth factors, chemokines, and stress, activate AP-1-dependent transcriptional activity of c-Jun is regulated by phosphorylation at Ser63 and Ser73 (reviewed in 2). Knockout studies in mice have shown that c-Jun is essential for embedding axon regeneration (4), liver regeneration (5), and T cell development (6). A exert diverse biological functions, including cell proliferation, differentiation, and a transformation, invasion and metastasis, depending on cell type and context (7-9). regulate survival, as well as hypoxia and angiogenesis (8,10). Research studies have a promising therapeutic target for cancer, vascular remodeling, acute inflammation arthritis (11,12).				ners of Fos, Jun, and ATF family ats (reviewed in 1). Extracellular 1-dependent transcription. The 3 and Ser73 through SAPK/JNK ential for embryogenesis (3), and es and developmental processes, lopment (6). AP-1 regulated genes tiation, and apoptosis, as well as context (7-9). Other target genes in studies have implicated c-Jun as	
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).

**Applications Key** FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey Pg: Pig

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