

Store at +4°C
 #8752

Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb (PE Conjugate)


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 TECHNOLOGY®

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

Applications: FC-FP	Reactivity: H M R Mk Pg	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P05412	Entrez-Gene Id: 3725
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of c-Jun only when phosphorylated at Ser73.	
Species predicted to react based on 100% sequence homology:	Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser73 of human c-Jun protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-c-Jun (Ser73) (D47G9) XP® Rabbit mAb #3270.	
Background	<p>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).</p>	
Background References	<ol style="list-style-type: none"> Jochum, W. et al. (2001) <i>Oncogene</i> 20, 2401-12. Davis, R.J. (2000) <i>Cell</i> 103, 239-52. Hilberg, F. et al. (1993) <i>Nature</i> 365, 179-81. Raivich, G. et al. (2004) <i>Neuron</i> 43, 57-67. Behrens, A. et al. (2002) <i>EMBO J</i> 21, 1782-90. Riera-Sans, L. and Behrens, A. (2007) <i>J Immunol</i> 178, 5690-700. Leppä, S. and Bohmann, D. (1999) <i>Oncogene</i> 18, 6158-62. Shaulian, E. and Karin, M. (2002) <i>Nat Cell Biol</i> 4, E131-6. Weiss, C. and Bohmann, D. (2004) <i>Cell Cycle</i> 3, 111-3. Karamouzis, M.V. et al. (2007) <i>Mol Cancer Res</i> 5, 109-20. Kim, S. and Iwao, H. (2003) <i>J Pharmacol Sci</i> 91, 177-81. 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 **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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