#9164 Store at -20C

Phospho-c-Jun (Ser73) Antibody



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Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 48	Source: Rabbit	UniProt ID: #P05412	Entrez-Gene Id: 3725	
Product Usage Information	Ap	Application				Dilution	
	We	Western Blotting				1:1000	
	lmı	Immunofluorescence (Immunocytochemistry)				1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	,	Phospho-c-Jun (Ser73) Antibody detects endogenous levels of c-Jun only when activated by phosphorylation at Ser73. This antibody also recognizes JunD phosphorylated at Ser100.					
Source / Purification	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser73 of human c-Jun. Antibodies are purified by protein A and peptide affinity chromatography.					

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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- 6. Riera-Sans, L. and Behrens, A. (2007) J Immunol 178, 5690-700.
- 7. Leppä, S. and Bohmann, D. (1999) Oncogene 18, 6158-62.
- 8. Shaulian, E. and Karin, M. (2002) Nat Cell Biol 4, E131-6.
- 9. Weiss, C. and Bohmann, D. (2004) Cell Cycle 3, 111-3.
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- 11. Kim, S. and Iwao, H. (2003) *J Pharmacol Sci* 91, 177-81.
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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.

Applications Key

Cross-Reactivity Key

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

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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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