



## Phospho-c-Jun-S63 Polyclonal Antibody

E9P004

**Catalog Number:** E9P0048**Amount:** 100ul

**Background:** c-Jun is a member of the Jun Family containing c-Jun, JunB and JunD, and is a component of the transcription factor AP-1 (activator protein-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). Knock-out 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). c-Jun has emerged as a promising therapeutic target for cancer, vascular remodeling, acute inflammation, as well as rheumatoid arthritis (11,12).

**Species:** Rabbit**Isotype:** IgG

**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonyms:** AP1; AP-1; c-Jun; JUN**Immunogen:** A phospho specific peptide corresponding to residues surrounding S63 of human c-Jun**Purification:** Affinity purification**Reactivity:** H M R**Applications:** WB IHC**Molecular Weight:****Swiss-Prot No.:** P05412**Gene ID:** 3725

**References:** 1. Jochum, W. et al. (2001) Oncogene 20, 2401-12. 2. Davis, R.J. (2000) Cell 103, 239-52. 3. Hilberg, F. et al. (1993) Nature 365, 179-81. 4. Raivich, G. et al. (2004) Neuron 43, 57-67. 5. Behrens, A. et al. (2002) EMBO J 21, 1782-90. 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. 10. Karamouzis, M.V. et al. (2007) Mol Cancer Res 5, 109-20. 11. Kim, S. and Iwao, H. (2003) J Pharmacol Sci 91, 177-81. 12. Dass, C.R. and Choong, P.F. (2008) Pharmazie 63, 411-4.

WB 1:500 - 1:2000

IHC 1:50 - 1:200