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| <b>Cat. No:</b>          | MAB-94227  |
| <b>Conjugate:</b>        | Unconjugated   |
| <b>Size:</b>             | 100 ug   |
| <b>Clone:</b>            | 54B3   |
| <b>Concentration:</b>    | 1mg/ml   |
| <b>Host:</b>             | Rb   |
| <b>Isotype:</b>          | IgG  |
| <b>Reactivity:</b>       | Hu   |
| <b>Applications:</b>     | Western Blot: 1:1000 Immunofluorescence 1:50 – 1:200 |
| <b>Molecular Weight:</b> | 48 kDa   |

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|----------------------|--|
| <b>Purification:</b> | Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser63 of human c-Jun.   |
| <b>Background:</b>   | <p>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). Phospho-c-Jun (Ser63) (54B3) Rabbit mAb detects endogenous levels of c-Jun only when phosphorylated at serine 63.</p> |
| <b>Form:</b>         | liquid   |
| <b>Buffer:</b>       | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.   |
| <b>Storage:</b>      | Store at -20°C. Avoid freeze / thaw cycles.  |

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