

Anti-E2F1 p-Ser364 antibody, monoclonal (#2)

71-151 50 μ g

E2F1 is a member of E2F group of proteins that share common structural and functional domains, play a major role during the G1/S transition in the mammalian cell cycle as transcriptional factors (1). E2F1 is regulated during cell cycle progression. It is phosphorylated at Ser364 by Chk2 kinase in response to DNA damage, stabilized, mobilized to nucleus and activated as a transcription factor (2). It induces apoptosis by activating transcription of the p53 homolog, p73 (3). E2F1 protein consists of 437 amino acids with molecular mass of 46 kDa

Applications

1. Western blotting (~1 μ g/ml) 2. ELISA. Not tested for other applications.

Specifications

Product: Mouse monoclonal antibody (clone #2) specific for the human E2F1 protein phosphorylated at Ser364. Produced in serum-free medium and purified under mild conditions

Antigen: A synthetic peptide corresponding to a sequence of human E2F1 protein

Including and surrounding phospho-Ser364

Isotype: IgG2b (kappa)

Form: Purified IgG 1 mg/ml in PBS(-), 50% glycerol

Reaction: Human E2F1 protein phosphorylated at Ser364. Not tested with other species.

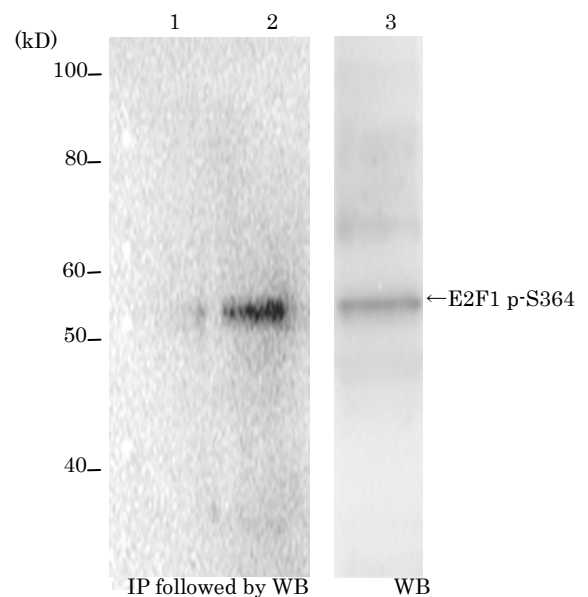
Storage: -20°C (long period; -70°C)

Reference

1. Trimarchi JM & Lees JA, Nature Rev Mol Cell Biol, 3: 11 (2002)
2. Stevens C. et al. Nature Cell Biol, 5: 402 (2003)
3. Irvin M. et al. Nature 407, 645 (2000)

Figure. Identification of E2F1 protein phosphorylated at p-Ser364 with monoclonal antibody (#2)

MCF cells were grown in the absence (lane 1) or in the presence of etoposide at 10 μ M for 16 h (lanes 2 & 3). Crude lysates were prepared and analyzed by western blotting (lane 3) with the antibody #2 or immunoprecipitated by pantropic anti-E2F1 antibody followed by western blotting with the antibody #2.



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