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

Product code	71-151
Size	100 µg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium.
Immunogen	Synthetic peptide corresponding to a sequence of human E2F1 protein including and surrounding phospho-Ser364
Isotype	Mouse IgG2bκ
Reactivity	Human E2F1 protein phosphorylated at Ser364. Not tested with other species.
Special notes	N/A
Application	1. Western blotting (1 µg/ml) 2. ELISA
Background	E2F1 is a member of E2F group of proteins that share common structural and functional domains and plays a major role during the G1/S transition in the mammalian cell cycle as a transcriptional factor (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 a molecular mass of 46 kDa.
Data Link	UniProtKB/Swiss-Prot Q01094 (E2F1_HUMAN)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 71-151 Anti-E2F1 p-Ser364 (human) antibody, mouse monoclonal (#2)

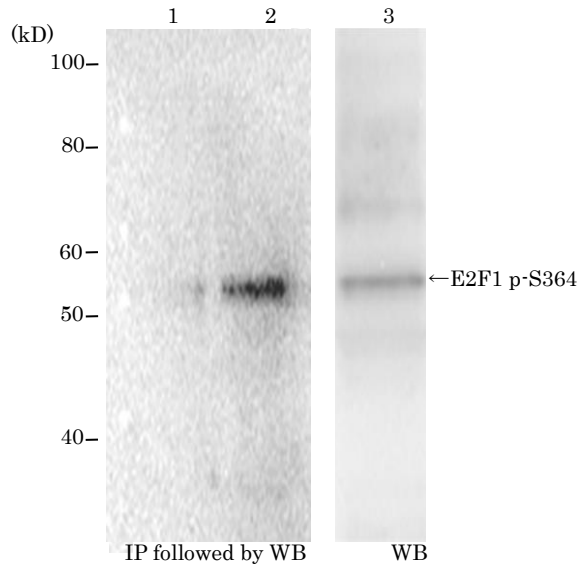

Fig.1 Identification of E2F1 protein phosphorylated at p-Ser364 with monoclonal antibody (#2)
MCF cells were grown in the absence (lane 1) or in the presence of etoposide at 10 μM for 16 h (lanes 2 & 3). Crude lysates were prepared and analyzed by Western blotting (lane 3) with the antibody #2 or immunoprecipitated by pantropic anti-E2F1 antibody followed by Western blotting with the antibody #2.

References

1. Trimarchi JM & Lees JA "Sibling rivalry in the E2F family" Nat Rev Mol Cell Biol 3:11-20(2002) PMID: 11823794
2. Stevens C et al "Chk2 activates E2F-1 in response to DNA damage"Nat Cell Bio1 5:401-409 (2003) PMID: 12717439
3. Irwin M et al "Role for the p53 homologue p73 in E2F-1-induced apoptosis"Nature 407:645-648 (2000) PMID: 11034215

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