



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-151-EX

Anti-E2F1 p-Ser364

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. This product is a Mouse monoclonal antibody (clone #2) specific to the human E2F1 protein phosphorylated at Ser364. Produced in serum-free medium and purified under mild conditions

Product type	Primary antibodies
Host	Mouse
Source	Serum free culture supernatant monoclonal antibody raised against synthetic peptide corresponding to a sequence of human E2F1 protein including and surrounding phospho-Ser364.
Form	Liquid Purified IgG1 mg/ml in PBS (-), 50% glycerol
Volume	50 µg
Concentration	
Specificity	
Antigen	A synthetic peptide corresponding to a sequence of human E2F1 protein including and surrounding phospho-Ser364
Isotype	Mouse IgG2b (κ)

Application notes WB, ELISA

Recommended use

Recommended dilutions

Western blotting: (~1 ug/ml)

Optimal dilutions/concentrations should be determined by the end user.

Data Link UniProtKB/Swiss- Prot [Q01094](#) (E2F1_HUMAN)

Staining Pattern

Cross reactivity

Storage

-20°C (Long period -70°C)

References

This product has been used for the following 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 Bio 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](#)

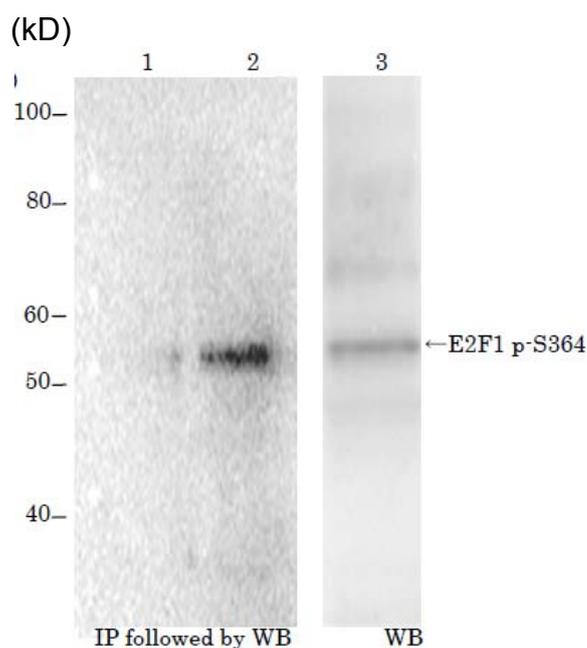


Figure. Identification of E2F1 protein phosphorylated at p-Ser364 with monoclonal antibody (#2)
MCF cells were grown in the absence (lane 1) or in the presence of etoposide at 10 μ M for 16 h (lanes 2 & 3). Crude lysates were prepared and analyzed by Western blotting (lane 3) with the anti-body #2 or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

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