



MONOCLONAL ANTIBODY

*For research use only. Not for clinical diagnosis.***Catalog No. BAM-71-161-EX****Anti-cMyc phospho-Ser62****BACKGROUND**

cMyc is a proto-oncogene, which is overexpressed in a wide range of human cancers. Myc gene encodes a transcription factor that regulates a great number of genes through binding on Enhancer Box sequences (E-boxes) and recruiting histone acetyltransferase. It can also act as a transcriptional repressor. It regulates cell growth, apoptosis, differentiation and stem cell self-renewal. Previous studies on the phosphorylation of c-Myc have suggested functional association between phosphorylation at Thr58/Ser62 by glycogen synthase kinase 3, cyclin dependent kinase, ERK2 and C-Jun N terminal Kinase (JNK), cell proliferation and cell cycle regulation. Phosphorylation at Ser62 is required for Ras-induced stabilization and is prerequisite for phosphorylation at Thr58 for its degradation (ref.1).

Product type	Primary antibodies
Host	Mouse
Source	Monoclonal antibody raised against containing phosphor-Ser62 of cMyc
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- [P01106](#) (MYC_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 Biol 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](#)

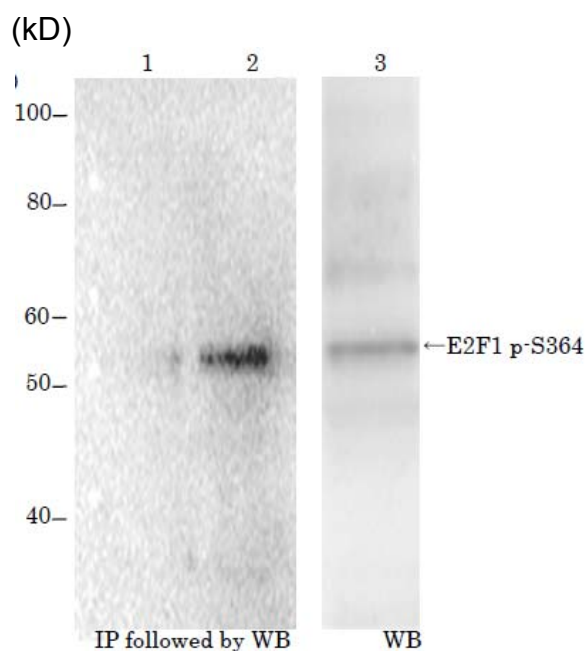


Figure. Identification of E2F1 protein phosphorylated at p-Ser364 with monoclonal antibody (#2)
 MCF cells were grown in the absence (lane 1) or in the presence of etoposide at 10 μ M for 16 h (lanes 2 & 3). Crude lysates were prepared and analyzed by Western blotting (lane 3) with the anti-body #2 or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

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