



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-171-EX

Anti-Rb phospho-Ser795

BACKGROUND

Retinoblastoma protein (Rb), the tumor suppressor product of the retinoblastoma susceptibility gene, is a 110 kDa protein that functions as a negative regulator of the cell cycle by arresting cells in the G1 phase and halting inappropriate cell proliferation (1). At the transcriptional level, Rb protein exerts its growth suppressive function by binding to transcription factors including E2F1, PU1, ATF2, UBF, Elf-1 and c-Abl (2-4). Loss of Rb function leads to uncontrolled cell growth and tumor development and is found in all retinoblastomas and in a variety of other human malignancies. The ability of Rb protein to inhibit transcription and cell cycle progression is inactivated by phosphorylation, which is catalyzed by the cyclin-dependent protein kinases.

Product type	Primary antibodies
Host	Mouse
Source	Monoclonal antibody raised against synthetic peptide containing phospho-Ser795 of human Rb
Form	Liquid Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized
Volume	50 µg
Concentration	
Specificity	Specific to human Rb phosphorylated at Ser795. Not tested for other species. Can detect endogenous levels of Rb phosphorylated at Ser795 in most cell lines.
Antigen	A synthetic peptide containing phospho-Ser795 of human Rb
Isotype	Mouse IgG2a (κ)

Application notes WB, ELISA

Recommended use

Recommended dilutions

Western blotting: ~ 1ug/ml

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

UniProtKB/Swiss-Prot [P06400](#) (RB_HUMAN)

Staining Pattern

Cross reactivity

Storage

-20°C (Long period -70°C)

References

This product has been used for the following references.

1. Sherr CJ "Cancer cell cycles" Science 274: 1672-1677 (1996) PMID: [8939849](#)
2. Nevins JR "E2F: a link between the Rb tumor suppressor protein and viral oncoproteins" Science 258: 424-429 (1992) PMID: [1411535](#)
3. Welch PJ & Wang JY "A C-terminal protein-binding domain in the retinoblastoma protein regulates nuclear c-Abl tyrosine kinase in the cell cycle" Cell 75: 779-790 (1993) PMID: [8242749](#)
4. Hu QJ et al "The regions of the retinoblastoma protein needed for binding to adenovirus E1A or SV40 large T antigen are common sites for mutations" EMBO J 9:1147-1155 (1990) PMID: [2138977](#)

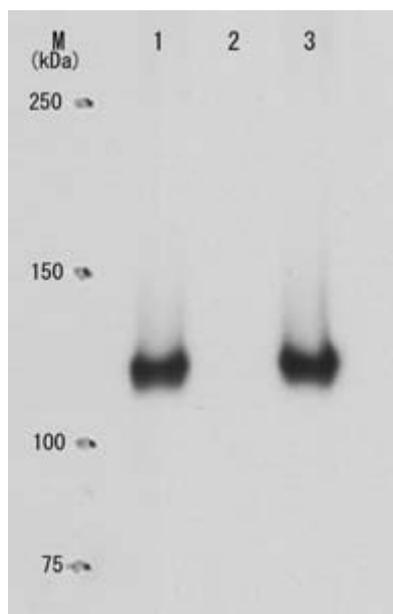


Fig.1 Specificity of the monoclonal antibody (28B5) to the phosphorylated Rb at Ser795 as demonstrated by Western blotting. Crude extracts of human lung carcinoma cell line H1299 transfected with plasmid expressing Myc-tagged wild-type Rb (lane 1), Rb (S795A) (lane 2) or Rb (T821A) were immuno-precipitated with anti-Myc antibody and the precipitates were analyzed by Western blotting with mono-clonal antibody 28B5. (Data provided by Dr. Y. Inoue at the JFCR Cancer Research Institute, Tokyo)

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