

Anti-Rb phospho-Ser795 antibody, monoclonal (28B5)

71-171 50 μ g

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, PU.1, 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 the transcription and the cell cycle progression is inactivated by phosphorylation, which is catalyzed by the cyclin-dependent protein kinases.

Applications

1. Western blotting ($\sim 1 \mu$ g/ml) 2. ELISA 3. Other applications were not tested.

Specification

Antigen: A synthetic peptide containing phospho-Ser795 of human Rb

Isotype: Mouse IgG2a (κ)

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

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

Storage: -20°C (long period, -70°C)

References:

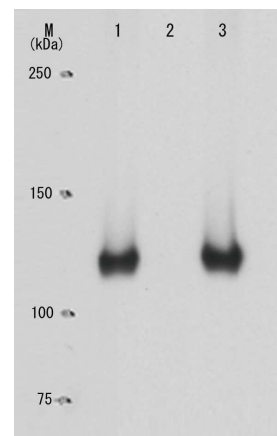
1. Sherr CJ, Science 274: 1672 (1996)
2. Nevins PJ et al. Science 258: 424 (1992)
3. Welch PJ & Wang JY, Cell 75: 779 (1993)
4. Hu QJ et al. EMBO J. 9:1147 (1990)

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 monoclonal antibody 28B5. (Data provided by Dr. Y. Inoue at the JFCR Cancer Research Institute, Tokyo)



Related product: #71-173 anti-Rb phospho-Thr821 antibody, monoclonal (24A7)

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