

## Anti-Rb phospho-Thr821 antibody, monoclonal (24A7)

71-173      100 ug

**Storage:** ship at 4°C or -20°C and store at -20. Do not freeze by storing below -20°C.

**Specific Reactivity:** Specific to human Rb phosphorylated at Thr821. Not tested for other species. Can detect endogenous levels of Rb phosphorylated at Thr821 in most cell lines.

**Immunogen:** A synthetic peptide containing phospho-Thr821 of human Rb

### Applications

1. Western blotting (~1ug/ml)
2. ELISA              Other applications were not tested.

**Isotype:** Mouse IgG1(kappa)

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

**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. 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. 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.

**Data Link**      UniProtKB/Swiss-Prot [P06400](#) (RB\_HUMAN)

### Fig.1 Specificity of the monoclonal antibody (24A7) to the phosphorylated Rb at Thr821 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 #24A7 (Data provided by Dr. Y. Inoue at the JFCR Cancer Research Institute, Tokyo).



**Related product:** [#71-171](#) anti-Rb phospho-Ser795 antibody, monoclonal (28B5)

**References :** This antibody has not been used in publication yet.