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Phospho-RB-S795

Reactivity: Human

Tested applications:WB IF

Recommended Dilution:WB 1:500 - 1:1000 IF 1:50 - 1:100

Calculated MW:102kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S795 of human RB

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

fk

Synonym:

RB1; RB; pRb; OSRC; pp110; p105-Rb

Catalog #:AP0088

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5925

Isotype: IgG

Swiss Prot:P06400

Purity: Affinity purification

For research use only.

Background:

The retinoblastoma tumor suppressor protein, Rb, regulates cell proliferation by controlling progression through the restriction point within the G1-phase of the cell cycle (1). Rb has three functionally distinct binding domains and interacts with critical regulatory proteins including the E2F family of transcription factors, c-Abl tyrosine kinase, and proteins with a conserved LXCXE motif (2-4). Cell cycle-dependent phosphorylation by a CDK inhibits Rb target binding and allows cell cycle progression (5). Rb inactivation and subsequent cell cycle progression likely requires an initial phosphorylation by cyclin D-CDK4/6 followed by cyclin E-CDK2 phosphorylation (6). Specificity of different CDK/cyclin complexes has been observed in vitro (6-8) and cyclin D1 is required for Ser780 phosphorylation in vivo (9).

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