Anti-phospho-Retinoblastoma (Rb)
(phosphoserine 780)
Developed in Rabbit,
Affinity Isolated Antibody

Product Number R 6275

Product Description
Anti-phospho-Retinoblastoma (Rb) (phosphoserine 780) is developed in rabbit using a synthetic phospho-Rb peptide corresponding to residues around Ser780 of human Rb and conjugated to KLH, as immunogen. The antibody is affinity-purified using the protein A and peptide affinity chromatography.

Anti-phospho-Retinoblastoma (Rb) (phosphoserine 780) detects Rb only when phosphorylated at Ser780. The antibody reacts with human, rat, and mouse and may be used for immunoblotting.

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 cdk controls Rb activity by preventing binding to these regulatory targets.5 Although the identity of the kinases phosphorylating specific Rb sites in vivo is still in question, Rb can be phosphorylated at a multiplicity of sites in vitro by cdc2, cdk2 and cdk4/cdk6 kinase complexes.5-9 Differential phosphorylation has been shown to modulate Rb function both in vitro and in vivo.7-10

Reagents
Anti-phospho-Retinoblastoma (Rb) (phosphoserine 780) is supplied as an affinity-isolated antibody in 10 mM sodium HEPES, pH 7.5, containing 150 mM sodium chloride, 100 µg/ml bovine serum albumin and 50% glycerol.

Storage/Stability
Store at 0° to −20°C. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile
Recommended working dilution is 1:1,000 for immunoblotting (chemiluminescent) using an extract of human fibroblasts synchronized by serum deprivation. For immunoblotting, incubate membrane with diluted antibody in 5% bovine serum albumin (BSA), 1X Tris buffered saline and 0.1% Tween-20 at 2-8°C with gentle shaking, overnight.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilution by titration test.

References