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# Product datasheet for AP02418PU-N

## Rb (RB1) pSer795 Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IF, IHC, WB |
| **Recommended Dilution:** | Western blot: 1/500~1/1000. (See also Ref.1)<br>Immunofluorescence: 1/100-1/200.<br>Immunohistochemistry on Paraffin Sections: 1/50-1/100. |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Immunogen:** | The antiserum was produced against synthesized phosphopeptide derived from human Rb around the phosphorylation site of serine 795 (P-S-SP-P-L). |
| **Specificity:** | This antibody detects endogenous levels of Rb only when phosphorylated at Serine 795. |
| **Formulation:** | PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction. |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody (in aliquots) at -20°C.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: One year from despatch. |
| **Gene Name:** | RB transcriptional corepressor 1 |
| **Database Link:** | Entrez Gene 5925 Human<br>P06400 |

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**Background:** Rb is a tumor suppressor gene which functions as a negative regulator of the cell cycle by interacting with transcription factors including E2F1, PU1, ATF2, UBF, Elf1 and cAbl. This ability of Rb to alter transcription is regulated by phosphorylation catalyzed by the cyclin dependent protein kinases (cdks). Rb is phosphorylated on serine and threonine, but not on tyrosine residues. It forms a complex with SV40 large T antigen, adenovirus E1A, and human papilloma virus 16E. Rb protein may act by regulating transcription and loss of its function leads to uncontrolled cell growth. Aberrations in the Rb gene have been implicated in cancers of breast, colon, prostate, kidney, nasopharynx, and leukemia.

**Synonyms:** Retinoblastoma 1, Rb, p105-Rb, pRb, pp110, OSRC

## Product images:

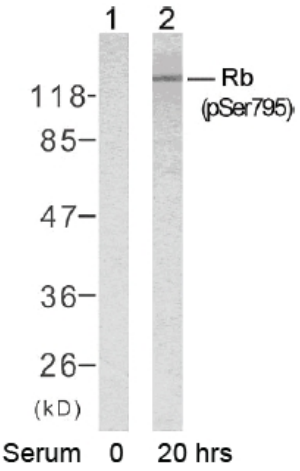


Figure 2. Western blot analysis of extracts from K562 cells untreated or treated with 10% serum after 48 hours of starvation, using Rb (phospho-Ser795) antibody.

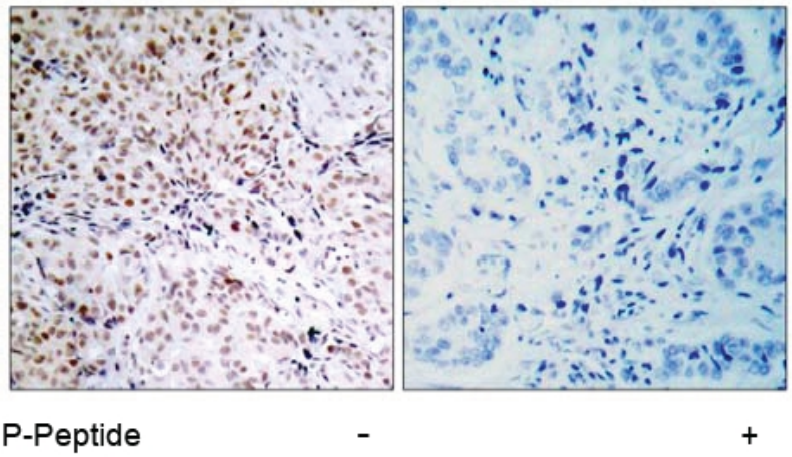


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using Rb (phospho-Ser795) antibody.

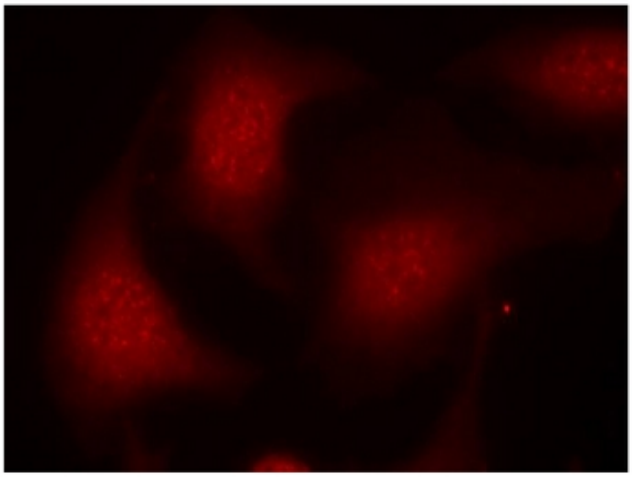

Figure 3. Immunofluorescence staining of methanol-fixed HeLa cells using Rb (phospho-Ser795) antibody (Red).