

AP12693PU-N

Polyclonal Antibody to RBL1 pSer975 - Aff - Purified

Alternate names:	107 kDa retinoblastoma-associated protein, Retinoblastoma-like protein 1, p107, pRb1
Quantity:	0.4 ml
Concentration:	lot specific
Background:	RB-like 1 is similar in sequence and possibly function to the product of the retinoblastoma 1 (RB1) gene. The RB1 gene product is a tumor suppressor protein that appears to be involved in cell cycle regulation, as it is phosphorylated in the S to M phase transition and is dephosphorylated in the G1 phase of the cell cycle. Both the RB1 protein and RB-like 1 can form a complex with adenovirus E1A protein and SV40 large T-antigen, with the SV40 large T-antigen binding only to the unphosphorylated form of each protein. In addition, both proteins can inhibit the transcription of cell cycle genes containing E2F binding sites in their promoters. Due to the sequence and biochemical similarities with the RB1 protein, it is thought that RB-like 1 may also be a tumor suppressor.
Uniprot ID:	P28749
NCBI:	9606
GeneID:	5933
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S975 of human Rb-like 1.
Format:	State: Liquid purified Ig fraction. Purification: Protein G Affinity Chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. Buffer System: PBS with 0.09% (W/V) Sodium Azide as preservative.
Applications:	ELISA: 1/1,000. Western Blot: 1/100-1/500. Immunohistochemistry: 1/50~1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects Rb-like-1 pSer975. Species: Human. Other species not tested.
Add. Information:	Molecular weight: 120877 Da

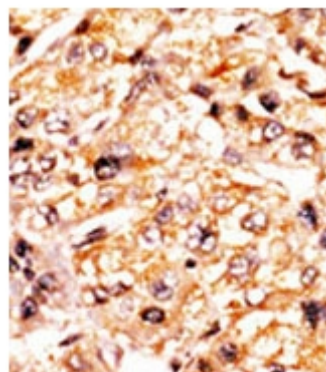
Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Caution: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:

1. Rodier, G., et al., J. Cell Biol. 168(1):55-66 (2005).
2. Barbie, T.U., et al., Proc. Natl. Acad. Sci. U.S.A. 100(26):15601-15606 (2003).
3. Joaquin, M., et al., J. Biol. Chem. 278(45):44255-44264 (2003).
4. Cicchillitti, L., et al., J. Biol. Chem. 278(21):19509-19517 (2003).
5. Leng, X., et al., Mol. Cell. Biol. 22(7):2242-2254 (2002).

Pictures: Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



The anti-Phospho-Rb-like-1 pSer975 Pab (Cat. #AP12693PU-N) is used in Western blot to detect Phospho-Rb-like-1 pSer975 in A2058 tissue lysate

