

Rabbit Phospho-Rb-like-1 (S975) Polyclonal Antibody | anti-RBL1 antibody

Phospho-Rb-like-1 (S975) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290145	Rabbit	Reactivity: Human Predicted Reactivity: Mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Phospho-Rb-like-1 (S975); Polyclonal Antibody; Phospho-Rb-like-1 (S975) Antibody; Retinoblastoma-like protein 1; 107 kDa retinoblastoma-associated protein; p107; pRb1; RBL1; anti-RBL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reactivity: Human Predicted Reactivity: Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Rb-like-1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S975 of human Rb-like-1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1,014
Applicable Applications for anti-RBL1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Key regulator of entry into cell division (PubMed:). Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation (By similarity). Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression (By similarity). Controls histone H4 'Lys-20' trimethylation (By similarity). Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters (By similarity). Potent inhibitor of E2F-mediated trans-activation (PubMed:). May act as a tumor suppressor (PubMed:).
Cellular Location	Nucleus.
Preparation and Storage	Maintain refrigerated at 2°C to 8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemisry)

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. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

The anti-Phospho-Rb-like-1-S975 Pab AAA290145 is used in Western blot to detect Phospho-Rb-like-1-S975 in A2058 tissue lysate



WB (Western Blot)

All lanes : Anti-Phospho-Rb-like-1(S975) Antibody (upper) at 1:250 dilution + Hela whole cell lysates, Beta-actin (lower)Lane 1: G0-phase?serum-deprived 24h?Lane 2: S-phase?hydroxycarbamide?5mM, 24hLane 3: G2/M-phase?etoposide?5mM, 24hLane 4: M-phase, nocodazole, 150ng/ml 20hLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 121 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-RBL1 antibody	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.
Product Categories/Family for anti-RBL1 antibody	Cancer; Cell Biology; Signal Transduction; Phospho Antibodies
References	Rodier, G., et al., J. Cell Biol. 168(1):55-66 (2005). Barbie, T.U., et al., Proc. Natl. Acad. Sci. U.S.A. 100(26):15601-15606 (2003). Joaquin, M., et al., J. Biol. Chem. 278(45):44255-44264 (2003). Cicchillitti, L., et al., J. Biol. Chem. 278(21):19509-19517 (2003). Leng, X., et al., Mol. Cell. Biol. 22(7):2242-2254 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	34577079
NCBI GeneID	5933
NCBI Accession #	NP_002886.2; NP_899662.1
NCBI GenBank Nucleotide #	NM_002895.3
UniProt Accession #	P28749; Q4VXA0; Q8N5K6; Q9H1L5; Q9H1M1; A8K2W5
NCBI Official Full Name	retinoblastoma-like protein 1 isoform a
NCBI Official Synonym Full Names	retinoblastoma-like 1
NCBI Official Symbol	RBL1
NCBI Official Synonym Symbols	PRB1; p107; CP107
NCBI Protein Information	retinoblastoma-like protein 1

UniProt Protein Name	Retinoblastoma-like protein 1
UniProt Gene Name	RBL1
UniProt Synonym Gene Names	p107
UniProt Entry Name	RBL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-rb-like-1-s975-antibody-immunohistochemistry-western-blot-elisa/290145>