

RBL1 Antibody(C-term) Blocking peptide
Synthetic peptide
Catalog # BP19390b**Specification**

RBL1 Antibody(C-term) Blocking peptide - Product InformationPrimary Accession [P28749](#)**RBL1 Antibody(C-term) Blocking peptide - Additional Information****Gene ID** 5933**Other Names**

Retinoblastoma-like protein 1, 107 kDa retinoblastoma-associated protein, p107, pRb1, RBL1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

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

RBL1 Antibody(C-term) Blocking peptide - Protein Information**Name** RBL1**Function**

Key regulator of entry into cell division (PubMed:17671431). 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:8319904). May act as a tumor suppressor (PubMed:8319904).

Cellular Location

Nucleus.

RBL1 Antibody(C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RBL1 Antibody(C-term) Blocking peptide - Images

RBL1 Antibody(C-term) Blocking peptide - Background

The protein encoded by this gene 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 the product of this gene 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 the protein encoded by this gene may also be a tumor suppressor. Two transcript variants encoding different isoforms have been found for this gene.

RBL1 Antibody(C-term) Blocking peptide - References

Jayadeva, G., et al. J. Biol. Chem. 285(39):29863-29873(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009)