

Recombinant Human RBL1 Protein

Cat. No. RBL1-067H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RBL1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1068
Description	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.
Form	Solution
Molecular Mass	110 kDa

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AA Sequence

MFEDKPHAEGAAVVAAAGEALQALCQELNLDEGSAAEALDDFTAIRGNYSLEGEVT
 HWLACSLYVACRKSIIPTVGKGIMEGNCVSLTRILRSAKLSLIQFFSKMKKWMDMSNL
 PQEFRERIERLERNFEVSTVIFKKYEPIFLDIFQNPYEEPPKLPRSRKQRRIPCSVKDL
 FNFCWTLFVYTKGNFRMIGDDLNSYHLLLCCLDLIFANAIMCPNRQDLLNPSFKGLP
 SDFHTADFTASEEPPCIIAVLCELHDGLLVEAKGIKEHYFKPYISKLFDRKILKGECLLD
 LSSFTDNSKAVNKEYEEYVLTVGDFDERIFLGADAEIEIGTPRKFTTRDTPGLKLTAAQA
 NVEYNLQQHFEEKRSFAPSTPLTGRRYLREKEAVITPVASATQSVSRLQSIVAGLKN
 APSDQLINIFESCVRNPNVENIMKILKGIGETFCQHYTQSTDEQPGSHIDFAVNRLKLAE
 ILYYKILETVMVQETRRLHGMDMSVLEQDIFHRSLMACCLEIVLFAYSSPRTFPWIIE
 VLNLQPFYFYKVIEWVIRSEEGLSRDMVKHLNSIEEQILES LawSHDSALWEALQVSA
 NKVPTCEEVIFPNNFETGNGGNVQGHPLMPMSPLMHPRVKEVRTDSGSLRRDMQ
 PLSPISVHERYSSPTAGSAKRRLFGEDPPKEMLMDKIITEGTLKLIAPSSSITAENVISIL
 PGQTLTMTAPVTGTTGHKVTIPLHGVANDAGEITLIPLSMNTNQESKVKSPVSLTA
 HSLIGASPKQTNLTAKAEVHSTGINRPKRTGSLALFYRKVYHLASVRLRDLCLKLDVS
 NELRRKIWTCFEFTLVHCPDLMKDRHLDQLLLCAFYIMAKVTKEERTFQEIMKSYRN
 QPQANSHVYRSVLLKSIPREVVAYNKNINDDFEMIDCDLEDATKTPDCSSGPVKEER
 GDLIKFYNTIYVGRVKSFALKYDLANQDHMMDAPPLSPFPHIKQQPGSPRRISQQHSI
 YISPHKNGSGLTPRSALLYKFNGSPSKSLKDINNMRQGEQRTKKRVIAIDSDAESP
 KRVCQENDDVLLKRLQDVVSEANH

Purity

> 90%

Applications

WB; ELISA; FACS; FC

Stability

This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage

-70°C

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Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	RBL1 retinoblastoma-like 1 (p107) [Homo sapiens (human)]
Official Symbol	RBL1
Synonyms	RBL1; retinoblastoma-like 1 (p107); retinoblastoma-like protein 1; cp107; p107; PRB1; cellular protein 107; 107 kDa retinoblastoma-associated protein; CP107; MGC40006;
Gene ID	5933
mRNA Refseq	NM_002895
Protein Refseq	NP_002886
MIM	116957
UniProt ID	P28749

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