

Datasheet for ABIN7555121
p107 Protein (AA 1-1068) (His tag)



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Overview

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|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | p107 (RBL1) |
| Protein Characteristics: | AA 1-1068 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This p107 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

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| Purpose: | Custom-made recombinat RBL1 Protein expressed in mammalian cells. |
| Sequence: | <p>MFEDKPHAEG AAVVAAAGEA LQALCQELNL DEGSAAEALD DFTAIRGNYS LEDEVTHWLA</p> <p>CSLYVACRKS IIPTVGKGIM EGNVSLTRI LRSKLSLIQ FFSKMKKWMD MSNLPQEFRE</p> <p>RIERLERNFE VSTVIFKKYE PIFLDIFQNP YEEPPKLPRS RKQRRIPCSV KDLNFNCWTL</p> <p>FVYTKGNFRM IGDDLVSNSYH LLLCCLDLIF ANAIMCPNRQ DLLNPSFKGL PSDFHTADFT</p> <p>ASEEPPCIIA VLCELHDGLL VEAKEGIKEHY FKPYISKLFD RKILKGECCL DLSSFTDNSK</p> <p>AVNKEYEEYV LTVGDFDERI FLGADAEIII GTPRKFTTRDT PLGKLTAQAN VEYNLQQHFE</p> <p>KKRSFAPSTP LTGRRYLREK EAVITPVASA TQSVSRQLSI VAGLKNAPSD QLINFESCV</p> <p>RNPVENIMKI LKGIGETFCQ HYTQSTDEQP GSHIDFAVNR LKLAELIYYK ILETVMVQET</p> <p>RRLHGMDMSV LLEQDIFHRS LMACCLEIVL FAYSSPRTFP WIEVLNLQP FYFYKVIEV</p> <p>IRSEGLSRD MVKHLNSIEE QILESLSWLSH DSALWEALQV SANKVPTCEE VIFPNNFETG</p> <p>NGGNVQGHLP LMPMSPLMHP RVKEVRTDSG SLRRDMQPLS PISVHERYSS PTAGSAKRRL</p> |

FGEDPPKEML MDKIITEGTK LKIAPSSSIT AENVSLPGQ TLLTMATAPV TGTTGHKVTI
PLHGVANDAG EITLIPLSMN TNQESKVKSP VSLTAHSLIG ASPKQTNLTK AQEVHSTGIN
RPKRTGSLAL FYRKVYHLAS VLRDLCLKL DVSNELRRKI WTCFEFTLVH CPDLMKDRHL
DQLLLCAFYI MAKVTKEERT FQEIMKSYRN QPQANSHVYR SVLLKSIPRE VVAYNKNIND
DFEMIDCDLE DATKTPDCSS GPVKEERGDL IKFYNTIYVG RVKSFALKYD LANQDHMMDA
PPLSPFPHIK QQPGSPRRIS QQHSIYISPH KNGSGLTPRS ALLYKFNGSP SKSLKDINNM
IRQGEQRTKK RVIAIDSDAE SPAKRVCQEN DDVLLKRLQD VVSERANH **Sequence without tag.**

The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

p107 (RBL1)

Alternative Name:

RBL1 ([RBL1 Products](#))

Background:

Retinoblastoma-like protein 1 (107 kDa retinoblastoma-associated protein) (p107) (pRb1),FUNCTION: Key regulator of entry into cell division (PubMed:17671431). Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in

Target Details

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). {ECO:0000250|UniProtKB:Q64701, ECO:0000269|PubMed:17671431, ECO:0000269|PubMed:8319904}.

| | |
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| Molecular Weight: | 120.8 kDa |
| UniProt: | P28749 |
| Pathways: | Cell Division Cycle , Mitotic G1-G1/S Phases |

Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |