



[Go to Product page](#)

Datasheet for ABIN3135609

## p130 Protein (AA 1-1135) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	p130 (RBL2)
Protein Characteristics:	AA 1-1135
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This p130 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MASGGNQSP PPPAAAASSE EEEEDGDAAD RAQPAGSPSH QIQRFEELC SRLNMDEAAR  
AEAWSSYRSM SESYTLGND LHWLACALYV ACRKSVPTVS KGTAEGNYVS LTRILRCSEQ  
SLIEFFNKMK KWEDMANLPP HFRERTERLE RNFTVSAVIF KKYEPIFQDI FKYPQEEQPR  
QQRGRKQRRQ PCTTSEIFHF CWVLFYAKG NFPMISDDLVS NSYHLLLCAL DLVYGNALQC  
SNRKELVNPV FKGLSEDCHP KDSKASSDPP CVIEKLCSLH DGLVLEAKGI KEHFWKPYIR  
KLFKELLKKG KEENLTGFLE PGNFGESFKA VNKAYEEYVL AAGNLDERVF LGEDAEVEVG  
TLRCLSAAS GTESAERTQM RDILQQHLDK SKALRVCTPL TGVRYVQENS PCVTPVSTAA  
HLSRLHTML SGLRNAPSEK LERILRCSR DPTQAIADRL KEMYEISQHF QPDENFSNC  
AKEIANKHFR FAEMLYYKVL ESVIEQEQKR LGDMDLSGVL EHDAFHRSL ACCLEVVAFS  
HKPPGNFPFI AEIFDVPHYH FYKVIEVFIR AEDGLCREVV KHLNQIEEQI LDHLAWKTKS  
PLWDRIRDNE NRVPTCEEVM PPQNLERTDE IYIAGSPLTP RRVGEVRADA GGLGRSITSP  
TTLYDRYSSP TVSTTRRRLF ENDSPSEGST SGRIPPQPLV NAVPVQNVPG ETVSVTPVPG

QTLVTMATAT VTANNGQTVT IPVQGIANEN GGITFFPVQV NVGGQAQAVA GSIQPLSAQA  
LAGSLSSQQV TGTTLQVPGP VAIQQISPGG QQQNPGQPLT SSSIRPRKTS SLALFFRKVY  
YLAGVRLRDL CIKLDISDEL RKKIWTCFEF SIIQCTELMM DRHLDQLLMC AIYVMAKVTK  
EDRSFQNMIR CYRTQPQARS QVYRSVLIKG KRRNSGSES RSHQNSPTEL NTDASRDSS  
PVMRSNSTLP VPQPSSAPPT PTRLTGASSD VEEEEERGDLI QFYNNIYRKQ IQAFAMKYSQ  
ANAQTDTPPL SPYPFVRTGS PRRVQLSQSH PIYISPHNNE AMPSPREKIF YYFSNSPSKR  
LREINSMIRT GETPTKKRGI LLDDGSESPA KRICPENHSA LLRRLQDVAN DRGSQ

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rbl2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step

## Product Details

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through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: p130 (RBL2)

Alternative Name: Rbl2 ([RBL2 Products](#))

Background: Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor. {ECO:0000269|PubMed:15750587}.

Molecular Weight: 128.4 kDa Including tag.

UniProt: [Q64700](#)

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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process