

Datasheet for ABIN3134985

# Cbl Proto-Oncogene B, E3 Ubiquitin Protein Ligase (CBLB) (AA 1-982) protein (His tag)



[Go to Product page](#)

## 1 Image

### Overview

Quantity:	1 mg
Target:	Cbl Proto-Oncogene B, E3 Ubiquitin Protein Ligase (CBLB)
Protein Characteristics:	AA 1-982
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence:	<p>MANSMNGRNP GGRGGNPRKG RILGIIDAIQ DAVGPPKQAA ADRRTVEKTW KLMDKVVRLC</p> <p>QNPQLQLKNS PPYILDILPD TYQHLRLILS KYDDNQKLAQ LSENEYFKIY IDSLMKKSKR</p> <p>AIRLFKEGKE RMYEEQSQDR RNLTKLSLIF SHMLAEIKAI FPNGQFQGDN FRITKADAAE</p> <p>FWRKFFGDKT IVPWKVFRQC LHEVHQISSG LEAMALKSTI DLTCNDYISV FEFDIFTRLF</p> <p>QPWGSILRNW NFLAVTHPGY MAFLTYDEVK ARLQKYSTKP GSYIFRLSCT RLGQWAIGYV</p> <p>TGDGNILQTI PHNKLPLFQAL IDGSREGFYL YPDGRSYNPD LTGLCEPTPH DHIKVTQEYQ</p> <p>ELYCEMGSTF QLCKICAEND KDVKIEPCGH LMCTSCLTAW QESDGQGCPF CRCEIKGTEP</p> <p>IIVDPFDPRD EGSRCCSIID PFSIPMLDLD DDDREESLM MNRLASVRKC TDRQNSPVTS</p> <p>PGSSPLAQRK KPQPDPLQIP HLSLPPVPPR LDLIQKGIVR SPCGSPTGSP KSSPCMVRKQ</p> <p>DKPLPAPPPP LRDP PPPPPR PPPIPPDNRL SRHFHHGESV PSRDQPMPLA AWCPRDAFGT</p> <p>NQVMGCRILG DGSPKPGVTA NSSLNHRHSR MGSEQVLMRK HRRHDLPSG AKVFSNGHLA</p> <p>TEEYDVPPRL SPPPPVTLL PSIKCTGPLA NCLSEKTRDT VEDDDDEYKI PSSHPVSLNS</p>
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QPSHCHNVKA PVRSCDNGHC ILNGTHGAPS EMKKSNIPLD GIYKGGGSD SASDPVPLPP  
ARPPPRDSPK HGSSVNRTPS DYDLLIPPLG EDAFDALPPS LPPPPPPARH SLIEHSKPPG  
SSSRPSSGQD LFLPSDPFF DPTSGQVPLP PARRAAGDSG KANRASQDYD QLPSSSDGSQ  
APARPPKPRP RRTAPEIHHR KPHGPEAALE NVDAKIAKLM GEGYAFEEVK RALEIAQNNV  
EVARSILREF AFPPPVSPRL NL

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Cblb 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.

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

## Product Details

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

Target:	Cbl Proto-Oncogene B, E3 Ubiquitin Protein Ligase (CBLB)
Alternative Name:	Cblb ( <a href="#">CBLB Products</a> )
Background:	<p>E3 ubiquitin-protein ligase which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and transfers it to substrates, generally promoting their degradation by the proteasome. Negatively regulates TCR (T-cell receptor), BCR (B-cell receptor) and FCER1 (high affinity immunoglobulin epsilon receptor) signal transduction pathways. In naive T-cells, inhibits VAV1 activation upon TCR engagement and imposes a requirement for CD28 costimulation for proliferation and IL-2 production. Also acts by promoting PIK3R1/p85 ubiquitination, which impairs its recruitment to the TCR and subsequent activation. In activated T-cells, inhibits PLCG1 activation and calcium mobilization upon restimulation and promotes anergy. In B-cells, acts by ubiquitinating SYK and promoting its proteasomal degradation. Slightly promotes SRC ubiquitination. May be involved in EGFR ubiquitination and internalization. May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3. {ECO:0000269 PubMed:10646608, ECO:0000269 PubMed:10646609, ECO:0000269 PubMed:11070165, ECO:0000269 PubMed:11526404, ECO:0000269 PubMed:12771181, ECO:0000269 PubMed:15308098}.</p>
Molecular Weight:	110.0 kDa Including tag.
UniProt:	<a href="#">Q3TTA7</a>

## Application Details

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

## Application Details

options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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



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