

Datasheet for ABIN3133337

CBL Protein (AA 1-913) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CBL
Protein Characteristics:	AA 1-913
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MAGNVKKSSG AGGGGSGGSG AGGLIGLMKD AFQPHHHHHH LSPHPPCTVD KKMVEKCWKL MDKVVRQCQN PKLALKNSPP YILDLLPDY QHLRTVLSRY EGKMETLGEN EYFRVFMENL MKKTKQTISL FKEGKERMYE ENSQPRRNL KLSLIFSHML AELKGIFPSG LFQGDTRIT KADAAEFWRK AFGEKTIVPW KSFRQALHEV HPISSGLEAM ALKSTIDLTC NDYISVFEFD IFTRLFPWS SLLRNWNSLA VTHPGYMAFL TYDEVKARLQ KFIHKPGSYI FRLSCTRLGQ WAIGYVTADG NILQTIPHNK PLFQALIDGF REGFYLPDG RNQNPDLTGL CEPTPQDHIK VTQEYELYC EMGSTFQLCK ICAENDKDVK IEPGCHLMCT SCLTSWQESE GQGCPFCRCE IKGTEPIVVD PFDPRGSGSL LRQGAEGAPS PNYDDDDDER ADDSLFMMKE LAGAKVERPS SPFSMAQAS LPPVPPRLDL LQQRAPVPAS TSVLGTASKA ASGSLHKDKP LPIPPTLRDL PPPPPPDRPY SVGAETRPQR RPLPCTPGDC PSRDKLPPVP SSRPGDSWLS RPIPKVPVAT PNPGDPWNGR ELTNRHSLPF SLPSQMEPRA DVPRLGSTFS LDTSMTMNSS PVAGPESEHP KIKPSSSANA IYSLAARPLP MPKLPPGEQG ESEEDTEYMT PTSRPVGVQK PEPKRPLEAT
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QSSRACDCDQ QIDSCTYEAM YNIQSQUALSV AENSASGEGN LATAHTSTGP EESENEDDGY
DVPKPPVPAV LARRTLSDIS NASSSFGWLS LDGDPTNFNE GSQVPERPPK PFPRRINSER
KASSYQQGGG ATANPVATAP SPQLSSEIER LMSQGYSYQD IQKALVIAHN NIEMAKNILR
EFVSISSPAH VAT

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 Cbl 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 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	CBL
Alternative Name:	Cbl (CBL Products)
Background:	<p>Adapter protein that functions as a negative regulator of many signaling pathways that are triggered by activation of cell surface receptors. Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome. Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, EGFR, CSF1R, EPHA8 and KDR and terminates signaling. Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation. Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis. Essential for osteoclastic bone resorption. The 'Tyr-737' phosphorylated form induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for osteoclast function. May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3.</p> <p>{ECO:0000269 PubMed:10393178, ECO:0000269 PubMed:12649282, ECO:0000269 PubMed:19265199, ECO:0000269 PubMed:20100865, ECO:0000269 PubMed:9653117}.</p>
Molecular Weight:	101.5 kDa Including tag.
UniProt:	P22682
Pathways:	TCR Signaling , Interferon-gamma Pathway , EGFR Signaling Pathway , EGFR Downregulation , VEGFR1 Specific Signals

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

Application Details

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.

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