

Datasheet for ABIN7563677

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



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Overview

Quantity:	1 mg
Target:	Cbl Proto-Oncogene B, E3 Ubiquitin Protein Ligase (CBLB)
Protein Characteristics:	AA 1-982
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cblb Protein expressed in mammalian cells.
Sequence:	<p>MANSMNGRNP GGRGGNPRKG RILGIIDAIQ DAVGPPKQAA ADRRTVEKTW KLMDKVRLC</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 LTGLCEPTH DHIKVTQEQY</p> <p>ELYCEMGSTF QLCKICAEND KDVKIEPCGH LMCTSCLTAW QESDGQGCPF CRCEIKGTEP</p> <p>IIVDPFDPRD EGSRCCSIID PFSIPMLDLD DDDDREESLM MNRLASVRKC TDRQNSPVTS</p> <p>PGSSPLAQRK KPQPDPLQIP HLSLPPVPPR LDLIQKGIVR SPCGSPTGSP KSSPCMVRKQ</p> <p>DKPLPAPPPP LRDP PPPPPR PPPIPDNRL SRHFHHGESV PSRDQPMPL AWCPRDAFGT</p> <p>NQVMGCRILG DGSPKPGVTA NSSLNHRHSR MGSEQVLMRK HRRHDLPSEG AKVFSNGHLA</p>

Product Details

TEEYDVPPRL SPPPPVTLL PSIKCTGPLA NCLSEKTRDT VEDDDDEYKI PSSHPVSLNS
QPSHCHNVKA PVRSCDNGHC ILNGTHGAPS EMKKSNIPLD GIYLGKGGSD SASDPVPLPP
ARPPPRDSPK HGSSVNRTPS DYDLLIPPLG EDAFDALPPS LPPPPPPARH SLIEHSKPPG
SSSRPSSGQD LFLLPSPFF DPTSGQVPLP PARRAAGDSG KANRASQDYD QLPSSSDGSQ
APARPPKPRP RRTAPEIHHR KPHGPEAALE NVDAKIAKLM GEGYAFEEVK RALEIAQNNV
EVARSILREF AFPPPVSPRL NL **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:

Cbl Proto-Oncogene B, E3 Ubiquitin Protein Ligase (CBLB)

Alternative Name:

Cblb ([CBLB Products](#))

Background:

E3 ubiquitin-protein ligase CBL-B (EC 2.3.2.27) (Casitas B-lineage lymphoma proto-oncogene b) (RING-type E3 ubiquitin transferase CBL-B) (SH3-binding protein CBL-B) (Signal transduction protein CBL-B),FUNCTION: 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

Target Details

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. In association with CBL, required for proper feedback inhibition of ciliary platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway via ubiquitination and internalization of PDGFRA (PubMed:29237719). {ECO:0000269|PubMed:10646608, ECO:0000269|PubMed:10646609, ECO:0000269|PubMed:11070165, ECO:0000269|PubMed:11526404, ECO:0000269|PubMed:12771181, ECO:0000269|PubMed:15308098, ECO:0000269|PubMed:29237719}.

Molecular Weight: 109.1 kDa

UniProt: [Q3TTA7](#)

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.

Restrictions: For Research Use only

Handling

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