Datasheet for ABIN7562971

CBL Protein (AA 1-913) (His tag)

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Overview

Quantity:	1 mg
Target:	CBL
Protein Characteristics:	AA 1-913
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cbl Protein expressed in mammalien cells.
Sequence:	MAGNVKKSSG AGGGGSGGSG AGGLIGLMKD AFQPHHHHHH LSPHPPCTVD KKMVEKCWKL MDKVVRLCQN PKLALKNSPP YILDLLPDTY QHLRTVLSRY EGKMETLGEN EYFRVFMENL MKKTKQTISL FKEGKERMYE ENSQPRRNLT KLSLIFSHML AELKGIFPSG LFQGDTFRIT KADAAEFWRK AFGEKTIVPW KSFRQALHEV HPISSGLEAM ALKSTIDLTC NDYISVFEFD IFTRLFQPWS SLLRNWNSLA VTHPGYMAFL TYDEVKARLQ KFIHKPGSYI FRLSCTRLGQ WAIGYVTADG NILQTIPHNK PLFQALIDGF REGFYLFPDG RNQNPDLTGL CEPTPQDHIK VTQEQYELYC EMGSTFQLCK ICAENDKDVK IEPCGHLMCT SCLTSWQESE GQGCPFCRCE IKGTEPIVVD PFDPRGSGSL LRQGAEGAPS PNYDDDDDER ADDSLFMMKE LAGAKVERPS SPFSMAPQAS LPPVPPRLDL LQQRAPVPAS TSVLGTASKA ASGSLHKDKP LPIPPTLRDL PPPPPPDRPY SVGAETRPQR RPLPCTPGDC PSRDKLPPVP SSRPGDSWLS RPIPKVPVAT PNPGDPWNGR ELTNRHSLPF SLPSQMEPRA DVPRLGSTFS LDTSMTMNSS PVAGPESEHP

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Product Details

	KIKPSSSANA IYSLAARPLP MPKLPPGEQG ESEEDTEYMT PTSRPVGVQK PEPKRPLEAT QSSRACDCDQ QIDSCTYEAM YNIQSQALSV AENSASGEGN LATAHTSTGP EESENEDDGY DVPKPPVPAV LARRTLSDIS NASSSFGWLS LDGDPTNFNE GSQVPERPPK PFPRRINSER KASSYQQGGG ATANPVATAP SPQLSSEIER LMSQGYSYQD IQKALVIAHN NIEMAKNILR EFVSISSPAH VAT **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 mammalien 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
Alternative Name:	Cbl (CBL Products)
Background:	E3 ubiquitin-protein ligase CBL (EC 2.3.2.27) (Casitas B-lineage lymphoma proto-oncogene) (Proto-oncogene c-Cbl) (RING-type E3 ubiquitin transferase CBL) (Signal transduction protein CBL),FUNCTION: 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. Ubiquitinates

Target Details

	SPRY2 (By similarity). Ubiquitinates EGFR (By similarity). 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 (PubMed:10393178, PubMed:12649282, PubMed:19265199, PubMed:20100865, PubMed:9653117). In association with CBLB, 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:0000250|UniProtKB:P22681, ECO:0000269|PubMed:10393178, ECO:0000269|PubMed:12649282, ECO:0000269|PubMed:19265199, ECO:0000269|PubMed:20100865, ECO:0000269|PubMed:29237719, ECO:0000269|PubMed:9653117}.
Molecular Weight:	100.6 kDa
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.
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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