

## Product datasheet for PH314069

### CBL (NM\_005188) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CBL MS Standard C13 and N15-labeled recombinant protein (NP_005179)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214069
Predicted MW:	99.5 kDa
Protein Sequence:	>RC214069 representing NM_005188 Red=Cloning site Green=Tags(s)

MAGNVKKSAGGSGSGSGGLIGLMKDAFQPHHHHHHLSHPHPTVDKMKMVEKCKWLMKVVRLC  
QNPKLALKNSPPYILDLLPDTYQHLRTILSRYEKMETLGENEYFRVFMENLMKTKQTISLFKEGKERM  
YEENSQPRRNLTKLSLIFSHMLAELKGIFFSGLFQGDTRITKADAAEFWRKAFGEKTIIPWKSFRQALH  
EVHPISSGLEAMALKSTIDLTCNDYISVFEFDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKAR  
LQKFIHKPGSYIFRLSCTRLGQWAIGYVADGNILQTIIPHNKPLFQALIDGFREGFYLPDGRNQNPDLT  
GLCEPTQDHIKVTQEYELYCEMGSTFQLCKICAENDKVKIEPCGHLMCTSCLTSWQESEGQGCPCFR  
CEIKGTEPIVVDPFDPGSGSLLRQGAEGAPSPNYDDDDERADDTLFMMKELAGAKVERPPSPFMAPQ  
ASLPPVPPRLDLLPQRVCVPSSASALGTASKAASGSLHKDKPLVPPTLRDLPPPPPPDRPYSVGAESRP  
QRRPLPCTPGDCPSRDKLPVPSSRLGDSWLPRPIPKVPVSAPSSSDPWTGRELNRHSLPFLPSQMEP  
RPDVPRLGSTFSLDTSMSMNSSPLVGPECDHPKIKPSSSANAIYSLAARPLPVPKLPPEQCEGEEDTEY  
MTPSSRPLRPLDTSQSSRACDCDQIDSCTYEAMYNIQSQAPSITESSTFGEGNLAHAHANTGPEESENE  
DDGYDVPKPPVAVLARRTLSDISNASSFGWLSLDGDPPTNVTEGSQVPERPPKPPRRINSERKAGSC  
QQGSGPAASAATASPQLSSEIENLMSQGYSDIQKALVIAQNNIEMAKNILREFVSISSPAHVAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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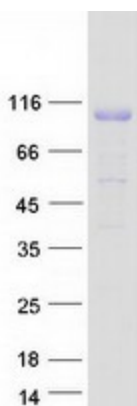
RefSeq:	<a href="#">NP_005179</a>
RefSeq Size:	11242
RefSeq ORF:	2718
Synonyms:	C-CBL; CBL2; FRA11B; NSLL; RNF55
Locus ID:	867
UniProt ID:	<a href="#">P22681</a>
Cytogenetics:	11q23.3

**Summary:** This gene is a proto-oncogene that encodes a RING finger E3 ubiquitin ligase. The encoded protein is one of the enzymes required for targeting substrates for degradation by the proteasome. This protein mediates the transfer of ubiquitin from ubiquitin conjugating enzymes (E2) to specific substrates. This protein also contains an N-terminal phosphotyrosine binding domain that allows it to interact with numerous tyrosine-phosphorylated substrates and target them for proteasome degradation. As such it functions as a negative regulator of many signal transduction pathways. This gene has been found to be mutated or translocated in many cancers including acute myeloid leukaemia, and expansion of CGG repeats in the 5' UTR has been associated with Jacobsen syndrome. Mutations in this gene are also the cause of Noonan syndrome-like disorder. [provided by RefSeq, Jul 2016]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Chronic myeloid leukemia, Endocytosis, ErbB signaling pathway, Insulin signaling pathway, Jak-STAT signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Ubiquitin mediated proteolysis

### Product images:



Coomassie blue staining of purified CBL protein (Cat# [TP314069]). The protein was produced from HEK293T cells transfected with CBL cDNA clone (Cat# [RC214069]) using MegaTran 2.0 (Cat# [TT210002]).