

CBL Rabbit mAb
Catalog # AP75206**Specification**

CBL Rabbit mAb - Product Information

Application	WB, IP, ICC
Primary Accession	P22681
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	99633

CBL Rabbit mAb - Additional Information**Gene ID** 867**Other Names**

CBL

Dilution

WB~~1/500-1/1000

IP~~N/A

ICC~~N/A

Format

Liquid

CBL Rabbit mAb - Protein Information**Name** CBL**Synonyms** CBL2, RNF55**Function**

E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed:10514377, PubMed:11896602, PubMed:14661060, PubMed:14739300, PubMed:15190072, PubMed:17509076, PubMed:18374639, PubMed:19689429, PubMed:21596750, PubMed:28381567). Accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome (PubMed:10514377).

[10514377](http://www.uniprot.org/citations/10514377), PubMed: [14661060](http://www.uniprot.org/citations/14661060), PubMed: [14739300](http://www.uniprot.org/citations/14739300), PubMed: [17094949](http://www.uniprot.org/citations/17094949), PubMed: [17509076](http://www.uniprot.org/citations/17509076), PubMed: [17974561](http://www.uniprot.org/citations/17974561)). Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, CSF1R, EPHA8 and KDR and mediates their ubiquitination to terminate signaling (PubMed: [15190072](http://www.uniprot.org/citations/15190072), PubMed: [18374639](http://www.uniprot.org/citations/18374639), PubMed: [21596750](http://www.uniprot.org/citations/21596750)). Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation (PubMed: [11896602](http://www.uniprot.org/citations/11896602)). Ubiquitinates EGFR and SPRY2 (PubMed: [17094949](http://www.uniprot.org/citations/17094949), PubMed: [17974561](http://www.uniprot.org/citations/17974561)). Ubiquitinates NECTIN1 following association between NECTIN1 and herpes simplex virus 1/HHV-1 envelope glycoprotein D, leading to NECTIN1 removal from cell surface (PubMed: [28381567](http://www.uniprot.org/citations/28381567)). Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis (PubMed: [15190072](http://www.uniprot.org/citations/15190072), PubMed: [18374639](http://www.uniprot.org/citations/18374639)). Essential for osteoclastic bone resorption (PubMed: [14739300](http://www.uniprot.org/citations/14739300)). The 'Tyr-731' 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 (PubMed: [14739300](http://www.uniprot.org/citations/14739300)). May be functionally coupled with the E2 ubiquitin-protein ligase UB2D3. 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 (By similarity).

Cellular Location

Cytoplasm. Cell membrane. Cell projection, cilium. Golgi apparatus. Note=Colocalizes with FGFR2 in lipid rafts at the cell membrane

CBL Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBL Rabbit mAb - Images



