

# CBL Rabbit mAb

Catalog # AP75206

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP, ICC            |
| Primary Accession | <a href="#">P22681</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Calculated MW     | 99633                  |

## Additional Information

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|-------------|-----------------------------------|
| Gene ID     | 867                               |
| Other Names | CBL                               |
| Dilution    | WB~~1/500-1/1000 IP~~N/A ICC~~N/A |
| Format      | Liquid                            |

## Protein Information

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|          |  |
|----------|--|
| Name     | CBL  |
| Synonyms | CBL2, RNF55  |
| Function | <p>E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed:<a href="#">10514377</a>, PubMed:<a href="#">11896602</a>, PubMed:<a href="#">14661060</a>, PubMed:<a href="#">14739300</a>, PubMed:<a href="#">15190072</a>, PubMed:<a href="#">17509076</a>, PubMed:<a href="#">18374639</a>, PubMed:<a href="#">19689429</a>, PubMed:<a href="#">21596750</a>, PubMed:<a href="#">28381567</a>). Accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome (PubMed:<a href="#">10514377</a>, PubMed:<a href="#">14661060</a>, PubMed:<a href="#">14739300</a>, PubMed:<a href="#">17094949</a>, PubMed:<a href="#">17509076</a>, PubMed:<a href="#">17974561</a>). Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, CSF1R, EPHA8 and KDR and mediates their ubiquitination to terminate signaling (PubMed:<a href="#">15190072</a>, PubMed:<a href="#">18374639</a>, PubMed:<a href="#">21596750</a>). Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation (PubMed:<a href="#">11896602</a>). Ubiquitinates EGFR and SPRY2 (PubMed:<a href="#">17094949</a>, PubMed:<a href="#">17974561</a>). Ubiquitinates NECTIN1 following association between NECTIN1 and herpes simplex virus 1/HHV-1 envelope glycoprotein D, leading to NECTIN1 removal from cell surface (PubMed:<a href="#">28381567</a>). Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis (PubMed:<a href="#">15190072</a>,</p> |

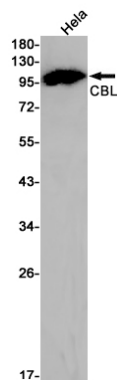
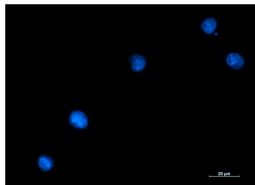
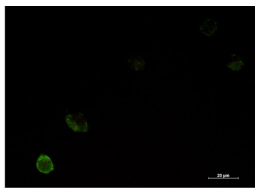
PubMed:[18374639](#)). Essential for osteoclastic bone resorption (PubMed:[14739300](#)). The 'Tyr-731' phosphorylated form induces the activation and recruitment of phosphatidylinositol 3-kinase to the cell membrane in a signaling pathway that is critical for osteoclast function (PubMed:[14739300](#)). 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

#### Images

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