

CBL Rabbit mAb

Catalog # AP75206

Product Information

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

Additional Information

Gene ID	867
Other Names	CBL
Dilution	WB~~1/500-1/1000 IP~~N/A ICC~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

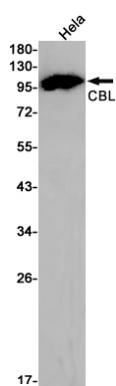
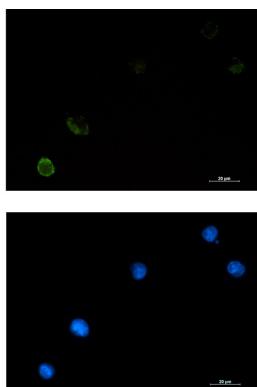
Name	CBL
Synonyms	CBL2, RNF55
Function	E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed: 10514377 , PubMed: 11896602 , PubMed: 14661060 , PubMed: 14739300 , PubMed: 15190072 , PubMed: 17509076 , PubMed: 18374639 , PubMed: 19689429 , PubMed: 21596750 , PubMed: 28381567 , PubMed: 40101708). Accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome (PubMed: 10514377 , PubMed: 14661060 , PubMed: 14739300 , PubMed: 17094949 , PubMed: 17509076 , PubMed: 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 , PubMed: 18374639 , PubMed: 21596750). Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation (PubMed: 11896602). Ubiquitinates EGFR and SPRY2 (PubMed: 17094949 , PubMed: 17974561). Involved in LAG3-mediated

inhibition of TCR signaling: following ligand-binding to LAG3, catalyzes 'Lys-63'-linked ubiquitination of LAG3, unleashing the LAG3 C-terminus from the membrane, and initiating a signaling that prevents TCR activation (PubMed:[40101708](#)). 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](#)). Participates in signal transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis (PubMed:[15190072](#), 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](#)). 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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