

Phospho-CBL (S669) Antibody

Rabbit mAb

Catalog # AP92850

Product Information

Application	WB
Primary Accession	P22681
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Casitas B lineage lymphoma proto oncogene; cbl; CBL2; E3 ubiquitin protein ligase CBL; Oncogene CBL2; Proto oncogene c CBL; RING finger protein 55; RNF55; Signal transduction protein CBL;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	99633

Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-CBL (S669)
Description	Participates in signal transduction in hematopoietic cells. Adapter protein that functions as a negative regulator of many signaling pathways that start from receptors at the cell surface. 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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

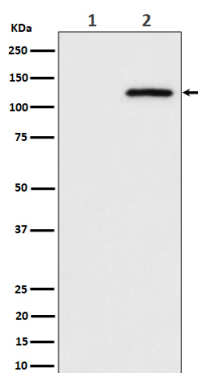
Name	CBL
Synonyms	CBL2, RNF55
Function	E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed: 10514377 , PubMed: 11896602 , PubMed: 14661060 , PubMed: 14739300 , PubMed: 15190072 , PubMed: 17509076 , PubMed: 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 , 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](#)). 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](#)). 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



Western blot analysis of Phospho-CBL (S669) expression in (1) HeLa cell lysate; (2) HeLa cell treated with pervanadate lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.