

# Phospho-CBL (Y774) Antibody

Rabbit mAb

Catalog # AP92833

## Product Information

|                          |  |
|--------------------------|--|
| <b>Application</b>       | WB, IHC, FC  |
| <b>Primary Accession</b> | <a href="#">P22681</a>   |
| <b>Reactivity</b>        | Human  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Other Names</b>       | Casitas B lineage lymphoma proto oncogene; CBL2; E3 ubiquitin protein ligase CBL; Oncogene CBL2; Proto oncogene c CBL; RING finger protein 55; RNF55; Signal transduction protein CBL; |
| <b>Isotype</b>           | Rabbit IgG   |
| <b>Host</b>              | Rabbit   |
| <b>Calculated MW</b>     | 99633  |

## Additional Information

|                                     |  |
|-------------------------------------|--|
| <b>Dilution</b>                     | WB 1:500~1:2000 IHC 1:50~1:200 FC 1:50   |
| <b>Purification</b>                 | Affinity-chromatography  |
| <b>Immunogen</b>                    | A synthesized peptide derived from human Phospho-CBL (Y774)  |
| <b>Description</b>                  | 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. Recognizes activated receptor tyrosine kinases, including PDGFA, EGF and CSF1, and terminates signaling. |
| <b>Storage Condition and Buffer</b> | 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

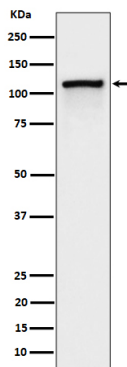
|                 |  |
|-----------------|--|
| <b>Name</b>     | CBL  |
| <b>Synonyms</b> | CBL2, RNF55  |
| <b>Function</b> | E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed: <a href="#">10514377</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:[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 (Y774) expression in Jurkat cell treated with Pervanadate lysate.

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