

# Phospho-CBL (Y774) Antibody

Rabbit mAb

Catalog # AP92833

## Product Information

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<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

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<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

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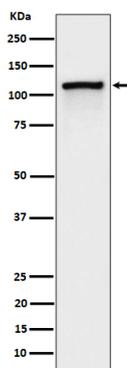
<b>Name</b>	CBL
<b>Synonyms</b>	CBL2, RNF55
<b>Function</b>	E3 ubiquitin-protein ligase that acts as a negative regulator of many signaling pathways by mediating ubiquitination of cell surface receptors (PubMed: <a href="#">10514377</a> , PubMed: <a href="#">11896602</a> , PubMed: <a href="#">14661060</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> , PubMed: <a href="#">40101708</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:[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



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'.