

**Cbl Polyclonal Antibody**  
Catalog # AP68873**Specification****Cbl Polyclonal Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P22681</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>

**Cbl Polyclonal Antibody - Additional Information****Gene ID** 867**Other Names**

CBL; CBL2; RNF55; E3 ubiquitin-protein ligase CBL; Casitas B-lineage lymphoma proto-oncogene; Proto-oncogene c-Cbl; RING finger protein 55; Signal transduction protein CBL

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Cbl Polyclonal Antibody - Protein Information****Name** CBL**Synonyms** CBL2, RNF55**Function**

Adapter protein that functions as a negative regulator of many signaling pathways that are triggered by activation of cell surface receptors. 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 (PubMed: <a href="http://www.uniprot.org/citations/17094949" target="\_blank">17094949</a>). Ubiquitinates SPRY2 (PubMed: <a href="http://www.uniprot.org/citations/17094949" target="\_blank">17094949</a>, PubMed: <a href="http://www.uniprot.org/citations/17974561" target="\_blank">17974561</a>). Ubiquitinates EGFR (PubMed: <a href="http://www.uniprot.org/citations/17974561" target="\_blank">17974561</a>). Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, CSF1R, EPHA8 and KDR and terminates signaling. Recognizes membrane-bound HCK, SRC and other kinases of the SRC family and mediates their ubiquitination and degradation. Participates in signal

transduction in hematopoietic cells. Plays an important role in the regulation of osteoblast differentiation and apoptosis. Essential for osteoclastic bone resorption. 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. 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

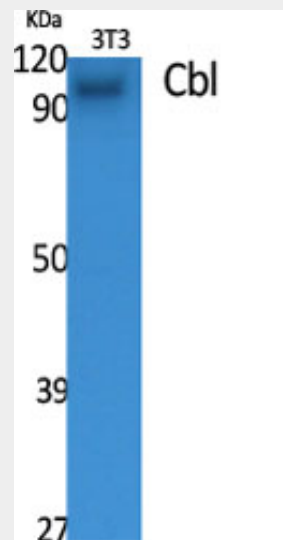
Cytoplasm. Cell membrane. Cell projection, cilium. Golgi apparatus. Note=Colocalizes with FGFR2 in lipid rafts at the cell membrane

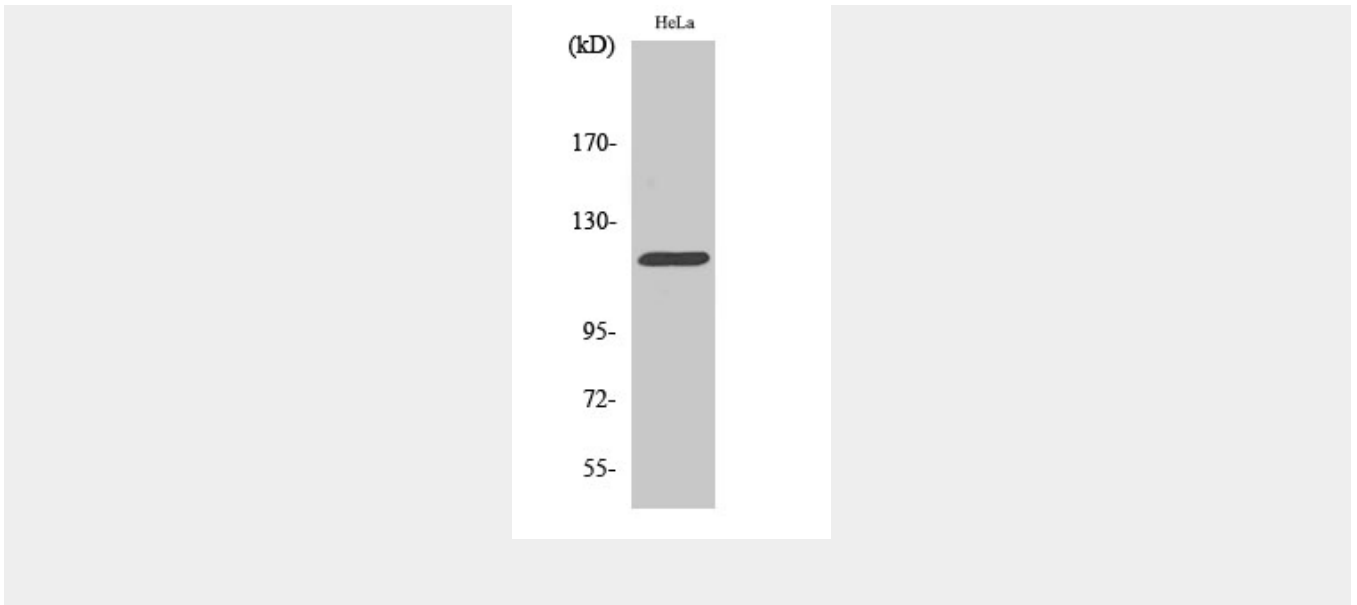
#### Cbl Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Cbl Polyclonal Antibody - Images





### **Cbl Polyclonal Antibody - Background**

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