

CBL Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8590b

Product Information

Application	WB, E
Primary Accession	P22681
Reactivity	Human, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,k
Clone Names	1762CT401.80.60

Additional Information

Other Names	E3 ubiquitin-protein ligase CBL, 6.3.2.-, Casitas B-lineage lymphoma proto-oncogene, Proto-oncogene c-Cbl, RING finger protein 55, Signal transduction protein CBL, CBL, CBL2, RNF55
Target/Specificity	This CBL antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 450-644 amino acids from human CBL.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CBL Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

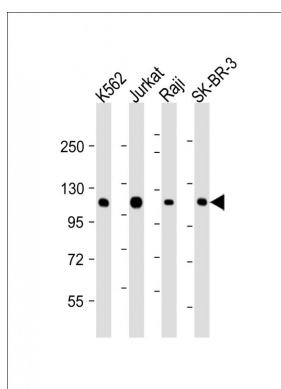
Adapter protein that functions as a negative regulator of many signaling pathways that are triggered by activation of cell surface receptors. Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome. Recognizes activated receptor tyrosine kinases, including KIT, FLT1, FGFR1, FGFR2, PDGFRA, PDGFRB, EGFR, 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.

References

Blake T.J., et al. *Oncogene* 6:653-657(1991).
Taylor T.D., et al. *Nature* 440:497-500(2006).
Howlett C.J., et al. *Biochem. Biophys. Res. Commun.* 257:129-138(1999).
Joazeiro C.A., et al. *Science* 286:309-312(1999).
Donovan J.A., et al. *J. Biol. Chem.* 269:22921-22924(1994).

Images



All lanes : Anti-CBL Antibody at 1:2000 dilution
Lane 1: K562 whole cell lysate
Lane 2: Jurkat whole cell lysate
Lane 3: Raji whole cell lysate
Lane 4: SK-BR-3 whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 100 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

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