CBL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBL, Polyclonal Antibody
Full Product Name	CBL Rabbit pAb
Product Gene Name	anti-CBL antibody
Product Synonym Names	CBL2; NSLL; C-CBL; RNF55; FRA11B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	115-130kDa
OMIM	165360
3D Structure	ModBase 3D Structure for P22681
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 637-906 of human CBL (NP_005179.2).
Cellular Localization	Cell Membrane, Cytoplasm, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CBL antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CBL antibody	WB: 1:500-1:2000 IHC: 1:50-1:100 IF: 1:50-1:200
Related Product Information for anti-CBL antibody	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.
Other Notes	Small volumes of anti-CBL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CBL purchase	MBS8547945 is an antibody targeting CBL. Also known as CBL Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBL. It may not necessarily be applicable to this product.

NCBI GI #	52426745
NCBI GeneID	867
NCBI Accession #	NP_005179.2
UniProt Primary Accession #	P22681
UniProt Related Accession #	P22681
GenBank Nucleotide #	NP_005179.2
NCBI Official Full Name	E3 ubiquitin-protein ligase CBL
NCBI Official Synonym Full Names	Cbl proto-oncogene
NCBI Official Symbol	CBL
NCBI Official Synonym Symbols	CBL2; NSLL; C-CBL; RNF55; FRA11B
UniProt Protein Name	E3 ubiquitin-protein ligase CBL
UniProt Synonym Protein Names	Casitas B-lineage lymphoma proto-oncogene; Proto-oncogene c-Cbl; RING finger protein 55; Signal transduction protein CBL
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	CBL
UniProt Synonym Gene Names	CBL2; RNF55
UniProt Entry Name	CBL_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase CBL
NCBI Summary for CBL	This gene is a proto-oncogene that encodes a RING finger E3 ubiquitin ligase. The encoded protein is one of the enzymes required for targeting substrates for degradation by the proteasome. This protein mediates the transfer of ubiquitin from ubiquitin conjugating enzymes (E2) to specific substrates. This protein also contains an N-terminal phosphotyrosine binding domain that allows it to interact with numerous tyrosine-phosphorylated substrates and target them for proteasome degradation. As such it functions as a negative regulator of many signal transduction pathways. This gene has been found to be mutated or translocated in many cancers including acute myeloid leukaemia, and expansion of CGG repeats in the 5' UTR has been associated with Jacobsen syndrome. Mutations in this gene are also the cause of Noonan syndrome-like disorder. [provided by RefSeq, Jul 2016]

UniProt Comments for CBL	CBL: an 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. Participates in signal transduction in hematopoietic cells. Protein type: Ligase; EC 6.3.2.19; EC 6.3.2.-; Adaptor/scaffold; Oncoprotein; Motility/polarity/chemotaxis; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: cytoplasm; plasma membrane; flotillin complex; nucleus; cytosol Molecular Function: protein binding; signal transducer activity; ephrin receptor binding; zinc ion binding; phosphotyrosine binding; ubiquitin-protein ligase activity; calcium ion binding; SH3 domain binding; transcription factor activity; ligase activity Biological Process: epidermal growth factor receptor signaling pathway; negative regulation of epidermal growth factor receptor signaling pathway; positive regulation of phosphoinositide 3-kinase cascade; cell surface receptor linked signal transduction; fibroblast growth factor receptor signaling pathway; regulation of transcription, DNA-dependent; transforming growth factor beta receptor signaling pathway; protein ubiquitination; positive regulation of receptor-mediated endocytosis; negative regulation of apoptosis Disease: Noonan Syndrome-like Disorder With Or Without Juvenile Myelomonocytic Leukemia
Research Articles on CBL	**1.** Low C-CBL expression is associated with Colorectal Cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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