

Product Name: KD-Validated Phospho-CBL (Y774) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00018

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 99.6kDa

Antigen Information

Gene Name	CBL
Alternative Names	CBL; Cbl Proto-Oncogene; RNF55; C-Cbl; CBL2; Cas-Br-M (Murine) Ecotropic Retroviral Transforming Sequence; Cbl Proto-Oncogene, E3 Ubiquitin Protein Ligase; Casitas B-Lineage Lymphoma Proto-Oncogene; RING-Type E3 Ubiquitin Transferase CBL; E3 Ubiquitin-Protein Ligase CBL; Signal Transduction Protein CBL; RING Finger Protein 55; Proto-Oncogene C-Cbl; Oncogene CBL2; Fragile Site, Folic Acid Type, Rare, Fra(11)(Q23.3); EC 2.3.2.27; EC 6.3.2; FRA11B; NSLL
Gene ID	867.0
SwissProt ID	P22681
Immunogen	A synthesized peptide derived from human Phospho-CBL (Y774)

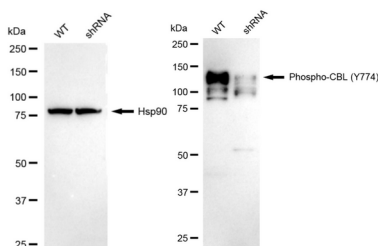
Background

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]

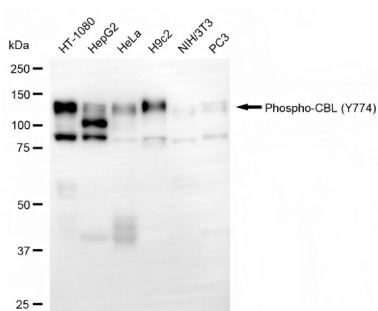
Research Area

Cell Biology,Signal Transduction,Epigenetics and Nuclear Signaling,Cancer

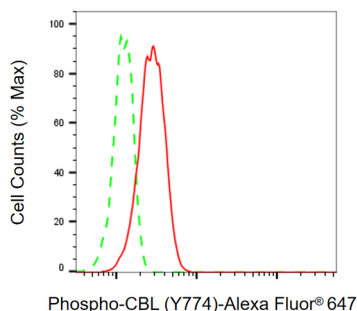
Image Data



Western blotting analysis using phospho-CBL (Y774) antibody (KVA000018). Phospho-CBL (Y774) expression in wild-type (WT) and CBL shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-CBL (Y774) antibody (KVA000018, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospho-CBL (Y774) antibody (KVA000018). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-CBL (Y774) antibody (KVA000018, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Phospho-CBL (Y774) expression in HT-1080 cells using Phospho-CBL (Y774) antibody (KVA000018, 1:2,000). Green, isotype control; red, Phospho-CBL (Y774).