10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-cbl-c (RABBIT) Antibody
Cbl-c Antibody
Catalog # ASR5324

Specification

Anti-cbl-c (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, IP, I, LCI**
Application Note	**This affinity purified antibody has been tested for use in ELISA, immunohistochemistry, immunoprecipitation and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~52 kDa in size corresponding to Cbl-c by western blotting in the appropriate cell lysate or extract.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**This affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-Terminal portion of Human Cbl-c.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-cbl-c (RABBIT) Antibody - Additional Information

Gene ID 23624

Other Names
23624

Purity
This affinity purified antibody is directed against human Cbl-c protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest that this antibody would react with Cbl-c from human and chimpanzee sources. Expect partial reactivity against mouse and rat sources of Cbl-c as ~83% sequence homology is on record for the immunogen sequence. Reactivity with Cbl-c from other sources has not been determined. No reactivity is expected with Cbl-a or Cbl-b.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted

liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-cbl-c (RABBIT) Antibody - Protein Information

Name CBLC

Synonyms CBL3, RNF57

Function
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. Functionally coupled with the E2 ubiquitin-protein ligases UB2D1, UB2D2 and UB2D3. Regulator of EGFR mediated signal transduction; upon EGF activation, ubiquitinates EGFR. Isoform 1, but not isoform 2, inhibits EGF stimulated MAPK1 activation. Promotes ubiquitination of SRC phosphorylated at 'Tyr-419'. In collaboration with CD2AP may act as regulatory checkpoint for Ret signaling by modulating the rate of RET degradation after ligand activation; CD2AP converts it from an inhibitor to a promoter of RET degradation; the function limits the potency of GDNF on neuronal survival.

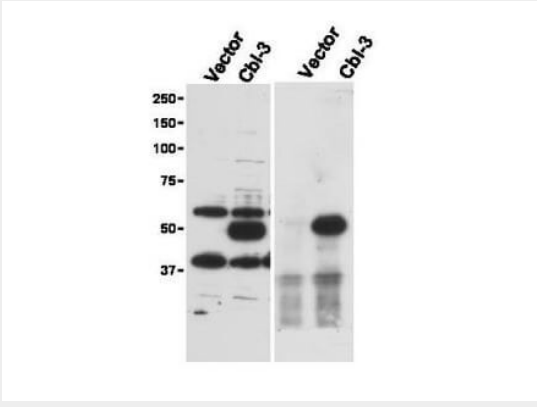
Tissue Location
Ubiquitous..

Anti-cbl-c (RABBIT) 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 Cytomety
- Cell Culture

Anti-cbl-c (RABBIT) Antibody - Images



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Immunoprecipitation (right) and western blot (left) using Rockland's Affinity Purified anti-Cbl-c antibody shows detection of a predominant band at ~52 kDa corresponding to Cbl-c. Lysates used are from HEK293T cells transfected with empty vector or with Cbl-c and western blotting (left panel). The predicted size of Cbl-c is 52 kDa. Size markers in kDa are shown to the left of the panel. The (right panel) shows immunoprecipitation with Rabbit anti-Cbl-c followed by western blotting using a Goat anti-Cbl-c antibody. Personal Communication. Stan Lipkowitz, NCI, NIH, Bethesda, MD.

Anti-cbl-c (RABBIT) Antibody - Background

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Cbl-c is also known as signal transduction protein CBL-C, SH3-binding protein CBL-C, CBL-3, and RING finger protein 57. Cbl proteins are a family of ubiquitin protein ligases (E3s) that negatively regulate signaling by targeting activated tyrosine kinases for degradation. Cbl-c (a.k.a. Cbl-3) is the most recently cloned member of the Cbl proteins and is expressed only in epithelial cells (the other Cbl proteins are ubiquitously expressed). Cbl-c, like the other mammalian Cbl proteins, can ubiquitinate the activated EGFR and target it for degradation. Cbl-c knock out mice show no obvious phenotype. Thus, the physiological role of Cbl-c is not known.