

Cbl Antibody

Cbl: Casitas B-lineage lymphoma proto-oncogene, Cas-BR-M murine ecotropic retroviral transforming sequence

CATALOG No.:3967

BACKGROUND:

The mammalian cbl family of ubiquitin ligases consists of three homologs known as cbl (also known as c-Cbl), Cbl-B, and Cbl-3 which share highly conserved a tyrosine-kinase-binding domain, linker and RING finger domain in their amino-terminal halves (reviewed in 1). Similar to other E3 ubiquitin ligases, Cbl catalyzes the transfer of ubiquitin from an E2 or Ubc (ubiquitin-conjugating) enzyme to the ϵ -amino group of a lysine residue of the substrate protein (2). Cbl acts to negatively regulate many types of cell-surface receptors, including the Syk protein tyrosine kinase family. Cbl is thought to be involved in T- and B-cell signaling, in addition to thymus development (3). Of the three known homologs in the cbl family, cbl antibody reacts specifically with cbl. Multiple isoforms of cbl have been reported.

SOURCE:

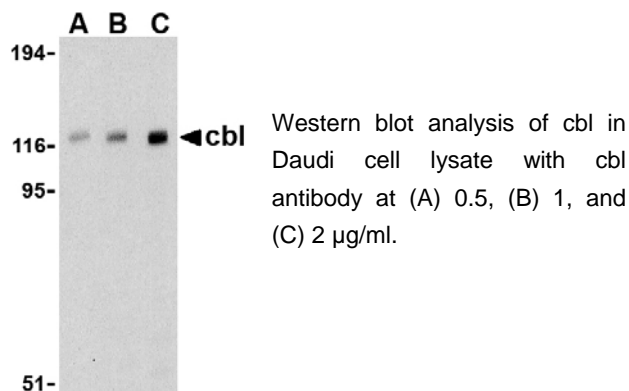
Rabbit polyclonal cbl antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human cbl (GenBank accession no. P22681).

APPLICATION:

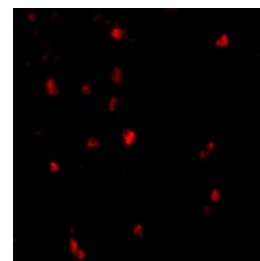
Cbl antibody can be used for detection of cbl by Western blot at 0.5 – 1 μ g/ml. (Optimal dilution should be determined by user.) Daudi cell lysate can be used as positive control. Cbl antibody is human, mouse and rat reactive. **For research use only.**

STORAGE:

Cbl antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Immunofluorescence of cbl in human lymph node tissue with cbl antibody at 20 μ g/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **3967P**.
Daudi Cell Lysate, Catalog No. **1224**.
UBC13 Antibody, Catalog No. **3373**.
UEV1A Antibody, Catalog No. **3375**.

REFERENCES:

1. Thien CBF and Langdon WY. C-Cbl and Cbl-b ubiquitin ligases: substrate diversity and the negative regulation of signaling responses. *Biochem. J.* 2005; 391:153-66.
2. Weissman AM. Themes and variations on ubiquitylation. *Nat. Rev. Mol. Cell Biol.* 2001; 2:169-78.
3. Swaminathan G and Tsygankov AY. The Cbl family of proteins: ring leaders in regulation of cell signaling. *J. Cell. Physiol.* 2006; 209:21-43.
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