

Datasheet for ABIN967970  
**anti-CBL antibody (AA 595-810)**

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## Overview

Quantity:	50 µg
Target:	CBL
Binding Specificity:	AA 595-810
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CBL antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Human c-Cbl aa. 595-810
Clone:	17-c
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li></ol>

## Product Details

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**Purification:** The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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**Target:** CBL

**Alternative Name:** c-Cbl ([CBL Products](#))

**Background:** Cbl was identified in the genome of a transforming retrovirus from a mouse pre-B cell lymphoma. The product of mammalian c-cbl, p120[cbl], is a widely expressed cytoplasmic protein with several distinctive domains including a RING finger motif and a large proline-rich domain. Although the normal cellular function of c-Cbl has not yet been determined, it associates with many well known signal transduction proteins. In lymphoid cells, c-Cbl is a substrate of TCR-activated protein tyrosine kinases. In addition, stimulation with EGF, PDGF, FGF, or NGF results in tyrosine-phosphorylation of c-Cbl in lymphoid and other cell types. It forms a signaling complex with Grb2 in T cells and is a SH3 and SH2 binding protein which associates with many other cytoplasmic signaling proteins including Btk, Src, fyn, lck, and the beta isoform of PI-3 kinase. Thus, c-Cbl may be an important adaptor protein in growth factor and T-cell receptor signaling pathways. This antibody is routinely tested by western blot analysis.

**Molecular Weight:** 120 kDa

**Pathways:** [TCR Signaling](#), [Interferon-gamma Pathway](#), [EGFR Signaling Pathway](#), [EGFR Downregulation](#), [VEGFR1 Specific Signals](#)

## Application Details

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**Comment:** Related Products: [ABIN968537](#), [ABIN967389](#)

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 250 µg/mL

**Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

**Preservative:** Sodium azide

## Handling

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store undiluted at -20°C.

## Publications

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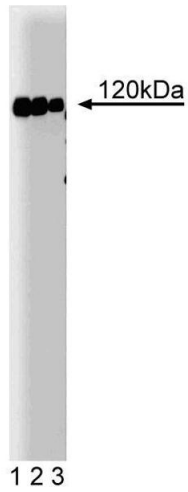
Product cited in: Jiang, Huang, Marusyk, Sorkin: "Grb2 regulates internalization of EGF receptors through clathrin-coated pits." in: **Molecular biology of the cell**, Vol. 14, Issue 3, pp. 858-70, (2003) ([PubMed](#)).

Burke, Schooler, Wiley: "Regulation of epidermal growth factor receptor signaling by endocytosis and intracellular trafficking." in: **Molecular biology of the cell**, Vol. 12, Issue 6, pp. 1897-910, (2001) ([PubMed](#)).

Garcia, Miller: "Single-cell analyses reveal two defects in peptide-specific activation of naive T cells from aged mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 166, Issue 5, pp. 3151-7, (2001) ([PubMed](#)).

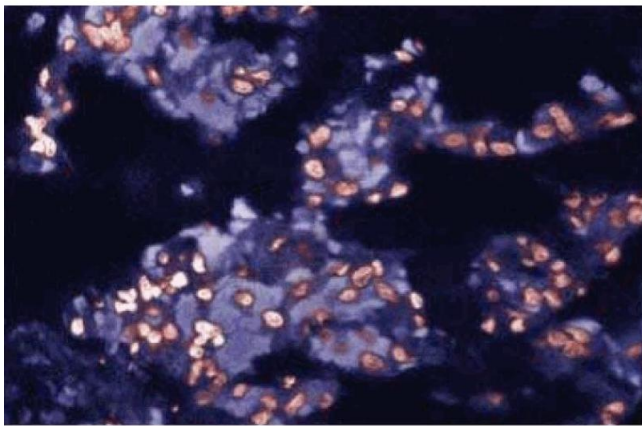
Sanjay, Houghton, Neff, DiDomenico, Bardelay, Antoine, Levy, Gailit, Bowtell, Horne, Baron: "Cbl associates with Pyk2 and Src to regulate Src kinase activity, alpha(v)beta(3) integrin-mediated signaling, cell adhesion, and osteoclast motility." in: **The Journal of cell biology**, Vol. 152, Issue 1, pp. 181-95, (2001) ([PubMed](#)).

Donovan, Wange, Langdon, Samelson: "The protein product of the c-cbl protooncogene is the 120-kDa tyrosine-phosphorylated protein in Jurkat cells activated via the T cell antigen receptor." in: **The Journal of biological chemistry**, Vol. 269, Issue 37, pp. 22921-4, (1994) ([PubMed](#)).



### Western Blotting

**Image 1.** Western blot analysis of c-Cbl on Jurkat lysate. Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1:20000 dilution of anti-c-Cbl.



### Immunofluorescence

**Image 2.** Immunofluorescent staining of Rabbit Lung tissue with anti-c-cbl antibody.