

AP17925PU-N**Polyclonal Antibody to CBLB / RNF56 (Center)****Alternate names:**

CBL-B, Casitas B-lineage lymphoma proto-oncogene b, E3 ubiquitin-protein ligase CBL-B, RING finger protein 56, SH3-binding protein CBL-B, Signal transduction protein CBL-B

Quantity:

0.4 ml

Concentration:

0.31 mg/ml (Lot specific)

Background:

E3 ubiquitin-protein ligase which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and transfers it to substrates, generally promoting their degradation by the proteasome. Negatively regulates TCR (T-cell receptor), BCR (B-cell receptor) and FCER1 (high affinity immunoglobulin epsilon receptor) signal transduction pathways. In naive T-cells, inhibits VAV1 activation upon TCR engagement and imposes a requirement for CD28 costimulation for proliferation and IL-2 production. It also acts by promoting PIK3R1/p85 ubiquitination, which impairs its recruitment to the TCR and subsequent activation. In activated T-cells, inhibits PLCG1 activation and calcium mobilization upon restimulation and promotes anergy. In B-cells, acts by ubiquitinating SYK and promoting its proteasomal degradation. It may also be involved in EGFR ubiquitination and internalization.

Uniprot ID:

[Q13191](#)

NCBI:

[NP_733762](#)

GenelD:

[868](#)

Host:

Rabbit

Immunogen:

KLH conjugated synthetic peptide between 103-130 amino acids from the Central region of human CBLB

Format:

State: Liquid purified Ig

Purification: Affinity chromatography on Protein A

Buffer System: PBS with 0.09% (W/V) sodium azide

Applications:

Peptide ELISA: 1/1,000.

Western blotting: 1/1,000.

Immunohistochemistry on Paraffin Sections: 1/10-1/50.

Flow Cytometry: 1/10-1/50

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts to CBLB.

Species Reactivity:

Tested: Human.

Expected from sequence similarity: Xenopus, Mouse.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Lavagna-Sevenier, C., et.al., J. Biol. Chem. 273 (24), 14962-14967 (1998)
2. Yokoi, N., et.al., Biochem. Biophys. Res. Commun. 368 (1), 37-42 (2008)

Pictures:

Western blot analysis of CBLB Antibody (Center) (AP17925PU-N) in HL-60 cell line lysates (35ug/lane). CBLB (arrow) was detected using the purified Pab.

