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## 12-4258: Phospho-c-Cbl (Tyr700) (Clone: E1) rabbit mAb APC conjugate

Clonality: Monoclonal **Clone Name:** CblY700-E1 Application: **FACS** 

Reactivity: Human, Mouse, Rat

Conjugate: APC

Format: Conjugated

E3 ubiquitin-protein ligase CBL, Casitas B-lineage lymphoma proto-oncogene, Proto-oncogene

**Alternative Name:** c-Cbl, RING finger protein 55, RING-type E3 ubiquitin transferase, Signal transduction protein

CBL, CBL2, RNF55

Isotype: Rabbit IgG1k

A synthetic phospho-peptide corresponding to residues surrounding Tyr700 of human **Immunogen Information:** 

phospho c-Cbl

## **Description**

The c-Cbl (Casitas B-lineage Lymphoma) proto-oncogene is a ubiquitously expressed cytoplasmic adaptor protein that contains multiple functional domains, including an amino-terminal tyrosine kinase-binding (TKB) domain, a RING finger motif, and a proline-rich region. The TKB recognizes phosphorylated tyrosines on activated receptor tyrosine kinases (RTKs) and on other nonreceptor tyrosine kinases, while the RING finger motif recruits ubiquitin-conjugating enzymes. These two domains are primarily responsible for the ubiquitin ligase activity of c-Cbl and downregulation of RTKs (1). The proline-rich region contains 14-3-3 protein-binding and SH3 domain-binding motifs. c-Cbl is phosphorylated at Y700, Y731, and Y774 by Sykand Src-family kinases after the stimulation of some integrins and a wide variety of receptors for immunoglobulins, antigens, hormones, growth factors, and cytokines. Phosphorylated Y774 interacts with the SH2 domain of Crk (1,2). The c-Cbl adapter protein is expressed in the cytoplasm in all tissues, with especially high levels of expression in hematopoietic cells (3,4). Through its many functional sites, c-Cbl plays key roles in the positive and negative regulation of vital cell functions, including T Cell Receptor-mediated cellular immune responses. In human cancer tissues, c-Cbl is frequently tyrosinephosphorylated in a tumor-specific manner (5).

## **Product Info**

10 Tests / 100 Tests Amount:

Content: 1X PBS, 0.09% NaN3, 0.2% BSA

Storage condition: Store at 2-8°C. Avoid repeated freeze and thaw cycles.

## **Application Note**

For flow cytometric staining, the suggested use of this reagent is  $5 \text{ $\tilde{A} \cap \hat{A}\mu L per million cells or } 5 \text{ $\tilde{A} \cap \hat{A}\mu L per 100 $\tilde{A}\mu L$ staining volume. It is recommended that the reagent be titrated for optimal performance for each application.



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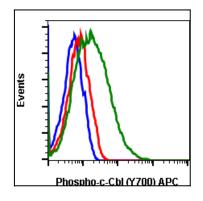


Fig-1: Flow cytometric analysis of C6 cells cell only only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-c-Cbl (Tyr700) APC-conjugated antibody CblY700-E1.