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12-4252: Phospho-c-Cbl (Tyr774) (Clone: R3B8) rabbit mAb FITC conjugate

Clonality: Monoclonal **Clone Name:** CblY774-R3B8

Application: **FACS**

Reactivity: Human, Mouse

Conjugate: FITC

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 Tyr774 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. See product image legends for additional information.



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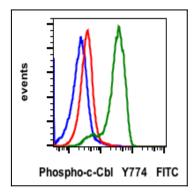


Fig-1: Flow cytometric analysis of Daudi cells untreated as negative control (blue) or untreated (red) or treated with IFNa + IL-4 + pervanadate (green) and stained using Phospho-c-Cbl (Tyr774) FITC-conjugated antibody CblY774-R3B8.