Phospho-c-Cbl (Tyr774) (R3B8) rabbit mAb APC conjugate

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#2319

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For Research Use Only. Not For Use In Diagnostic Procedures.

Application	s Detection	Clonality	lsotype
Flow Cytome	try N/A	Monoclonal	Rabbit IgGk
Format:	APC		
Cross Reactivity:	Predicted to work with mouse, rat and ot	her homologues.	
Formulation:	1X PBS, 0.09% NaN3, 0.2% BSA		
Preparation:	Protein A+G		
Reactivity:	Human,Mouse		
Recommended Usage:	For flow cytometric staining, the suggest µL of staining volume. It is recommended application.		
Immunogen:	A synthetic phospho-peptide correspond	ing to residues surrounding Tyr774	of human 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 Syk- and 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 tyrosine-phosphorylated in a tumor-specific manner (5).		
References:	1. Christine, B.F. et al. (2001) Nat. Rev. 2. Feshchenko, E.A. et al. (1998) J. Biol. 3. Blake, T.J. et al. (1991) Oncogene. 6: 4. Thien, C.B. and Langdon, W.Y. (1998) 5. Kamei, T. et al. (2000) Int. J. Oncol. 1	. Chem. 273: 8323-8331. 653-657.) Immunol. Cell Biol. 76: 473-482.	





EVENTS

Phospho-c-Cbl (Y774) APC

Flow cytometric analysis of Daudi cells cell only (blue) or untreated (red) or treated with IFN? + IL-4 + pervanadate (green) using Phospho-c-Cbl (Tyr774) APC-conjugated antibody CblY774-R3B8. Cat. #2319.

