Phospho-c-Cbl (Tyr700) (E1) rabbit mAb FITC conjugate

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#2323

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Applications	Detection	Clonality	Isotype
Flow Cytometry	y N/A	Monoclonal	Rabbit IgGk
Format:	FITC		
Cross Reactivity:	Predicted to work with mouse, rat and other	er homologues.	
Formulation:	1X PBS, 0.09% NaN3, 0.2% BSA		
Preparation:	Protein A+G		
Reactivity:	Human,Mouse,Rat		
Recommended Usage:	For flow cytometric staining, the suggester μ L of staining volume. It is recommended application. See product image legends for	d use of this reagent is 5 μL per mi that the reagent be titrated for optir r additional information.	llion cells or 5 μL per 100 nal performance for each
Immunogen:	A synthetic phospho-peptide correspondin	g to residues surrounding Tyr700 o	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. M 2. Feshchenko, E.A. et al. (1998) J. Biol. C 3. Blake, T.J. et al. (1991) Oncogene. 6: 6 4. Thien, C.B. and Langdon, W.Y. (1998) I 5. Kamei, T. et al. (2000) Int. J. Oncol. 17:	ol. Cell Biol. 2: 294-307. hem. 273: 8323-8331. 53-657. mmunol. Cell Biol. 76: 473-482. 335-339.	







Flow cytometric analysis of C6 cells cell treated with imatinib and unstained as negative control (blue) or treated with imatinib (red) or with pervanadate (green) and stained using Phospho-c-Cbl (Tyr700) FITC conjugated antibody CblY700-E1. Cat. #2323.

Phospho-cCbl (Y700) FITC

