#8869

Phospho-c-Cbl (Tyr700) (D16D7) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #P22681	Entrez-Gene Id: 867	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sens	sitivity	Phospho-c-Cbl (Tyr700) (D16D7) Rabbit mAb recognizes endogenous levels of c-Cbl protein only w phosphorylated at Tyr700.				protein only when	
Species predict based on 100% homology	ed to react sequence	Mouse					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr700 of human c-Cbl protein.					
Background		The c-Cbl proto-oncogene is a ubiquitously expressed cytoplasmic adaptor protein that is especially predominant in hematopoietic cells (1,2). c-Cbl is rapidly tyrosine-phosphorylated in response to stimulation of a variety of cell-surface receptors and becomes associated with a number of intracellular signaling molecules such as protein tyrosine kinases, phosphatidylinositol-3 kinase, Crk, and 14-3-3 proteins (3,4). c-Cbl possesses a highly conserved amino-terminal phosphotyrosine binding domain (TKB) and a C3HC4 RING finger motif. The TKB recognizes phosphorylated tyrosines on activated receptor tyrosine kinases (RTKs) as well as other nonreceptor tyrosine kinases. 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 (3). Research studies have indicated that in human cancer tissues, c-Cbl is frequently tyrosine-phosphorylated in a tumor-specific manner (5). Phosphorylation of Tyr731 of c-Cbl provides a docking site for downstream signaling components such as p85 and Fyn (6). It has been demonstrated that c-Cbl is phosphorylated at Tyr700 by Fyn, Yes, and Syk (4) and that Vav, a hematopoietic-restricted Rac guanine nucleotide exchange factor, undergoes c-Cbl-dependent ubiquitination upon recruitment to phospho-Tyr700 (5).					
Background Re	ferences	 Blake, T.J. et al. (1991) Oncogene 6, 653-657. Thien, C.B. and Langdon, W.Y. (1998) Immunol. Cell Biol. 76, 473-482. Christine, B.F. et al. (2001) Nat. Rev. Mol. Cell Biol. 2, 294-307. Feshchenko, E.A. et al. (1998) J. Biol. Chem. 273, 8323-8331. Kamei, T. et al. (2000) Int. J. Oncol. 17, 335-339. Hunter, C. et al. (1999) J. Biol. Chem. 274, 2097-2106. Miura-Shimura, Y. et al. (2003) J Biol Chem 278, 38495-504. 					
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	-	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	у Кеу	H: Human					
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					

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