Revision 3
 c-Cbl (D4E10) Rabbit mAb
 Cell Signaling
TECHNOLOGY*

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Applications: W, W-S, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #P22681	Entrez-Gene Id: 867	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 1:200		
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/Sen	sitivity	c-Cbl (D4E10) Rabbit mAb recognizes endogenous levels of total c-Cbl protein. This antibody does not cross-react with Cbl-b and based upon sequence alignment, is not predicted to cross-react with Cbl-c.					
Species predict based on 100% homology		Rabbit					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro582 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).					
Background Re	eferences	 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. 					
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	Suffer	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 K	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation					
Cross-Reactivit	cy Key	H: Human M: Mouse R: Rat Mk: Monkey					
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