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## c-Cbl Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
<b>Applications:</b> WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 120	Source: Rabbit	UniProt ID: #P22681	Entrez-Gene Id: 867	
Product Usage	Ар	plication				Dilution	
Information	We	stern Blotting				1:1000	
	Imr	nunoprecipitation				1:50	
	Imr	munofluorescence (	Immunocytochemis	try)		1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		This antibody detects endogenous levels of total c-Cbl protein. The antibody may also cross-react with Cbl-b protein.					
Species predicter react based on 10 sequence homolo	00%	ine					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human c-Cbl. Antibodies are purified by protein A and peptide affinity chromatography.					
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					

Cbl provides a docking site for downstream signaling components such as p85 and Fyn (6). 1. Blake, T.J. et al. (1991) Oncogene 6, 653-657. **Background References** 

2. Thien, C.B. and Langdon, W.Y. (1998) Immunol. Cell Biol. 76, 473-482.

3. Christine, B.F. et al. (2001) Nat. Rev. Mol. Cell Biol. 2, 294-307.

4. Feshchenko, E.A. et al. (1998) J. Biol. Chem. 273, 8323-8331.

5. Kamei, T. et al. (2000) Int. J. Oncol. 17, 335-339.

6. Hunter, C. et al. (1999) J. Biol. Chem. 274, 2097-2106.

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

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-

GP: Guinea Pig Rab: rabbit All: all species expected

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**Limited Uses** 

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