Cell Signaling Cbl-b Antibody H. 877-616-CELL (2355) orders@cellsignal.com Orders: Support: 877-678-TECH (8324) info@cellsignal.com cellsignal.com Web:



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W. IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #O13191	Entrez-Gene Id: 868
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sod 20°C. Do not aliquot th	ium HEPES (pH 7.5 e antibody.), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	vcerol. Store at –
Specificity/Sensitivity		Cbl-b Antibody recognizes endogenous levels of total Cbl-b protein. This antibody does not cross-react with other Cbl family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val625 of human Cbl-b protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The Casitas B lineage ly family of single subuni interaction motifs (1). A domain that mediates substrates. C-terminal interactions with SH3 d interactions with SH2 d protein interaction mot function contributes to ubiquitination and deg such as the recruitmen Cbl proteins to specific Cbl-b is an E3 ubiquitin Cbl-b in hematopoietic downregulation of TCR regulator of the CD28 s regulatory subunit of P and protein are upregu b-deficient T cells are re are thought to be linke these signaling molecu	ymphoma (Cbl) prot t RING finger prote All Cbl proteins hav interactions betwe to the RING finger, domain-containing domain-containing tifs allow Cbl family the E3-dependent gradation. The adap to of proteins involv subcellular compa ligase with a dom cell physiology is w expression during signaling cascade to 213K (3,4). As a critical alted in T cells foll esistant to anergy to defects in the alles, which occurs for t T cells (5).	teins (in mammals thes ein-ubiquitin E3 ligases t e a highly conserved N-t en Cbl proteins and pho Cbl proteins have prolir proteins. Phosphorylate proteins such as the p8 y proteins to function as cactivities of Cbl proteins of Cbl proteins to function also contril yed in receptor tyrosine in organization nearly i well documented. Cbl-b antigen recognition (2), o Vav and Rac1 through cal regulator of clonal ar owing calcium mobilizat induction (5). The molec ubiquitination of PLCy1 following restimulation of	e are c-Cbl, Cbl-b, ar hat contain multiple terminal tyrosine kir isphorylated tyrosin he-rich domains that d tyrosine residues 5 subunit of PI3K. Th adaptor proteins (2 s by targeting speci- butes to non-E3-dep kinase internalizatio of discrete signaling identical to that of c expression is import . Cbl-b also acts as a its ability to ubiquit hergy in T lymphocy ion and calcineurin ular events governia and PKCθ since the of wild-type anergic	nd Cbl-c) are a e protein hase-binding (TKB) e residues on Cbl t mediate mediate hese protein-). This adaptor fic substrates for bendent activities, on, localization of g pathways (1). -Cbl. The role of tant for the potent negative inate the p85 tes, Cbl-b mRNA activation (5). Cbl- ng this phenotype degradation of T cells, fails to
Background Re	eferences	1. Schmidt, M.H. and D 2. Naramura, M. et al. (3. Naramura, M. et al. (4. Chiang, Y.J. et al. (200 5. Fang, D. and Liu, Y.C. 6. Heissmeyer, V. et al. (ikic, I. (2005) Nat R 2002) Nat Immund 2002) Nat Immund 2002) Nat Immund 00) Nature 403, 210 . (2001) Nat Immund (2004) Nat Immund	ev Mol Cell Biol 6, 907-13 >/ 3, 1192-9. >/ 3, 1192-9. 5-20. 10/ 2, 870-5. o/ 5, 255-65.	8.	
Species Reactiv	vity	Species reactivity is det	termined by testing	g in at least one approve	ed application (e.g., v	western blot).
Western Blot B	Suffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody in	5% w/v BSA, 1X
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	tion		
Cross-Reactivit	су Кеу	H: Human				

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