

3555

Phospho-c-Cbl (Tyr774) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Phospho-c-Cbl (Tyr774) Antibody detects endogenous levels of c-Cbl only when phosphorylated at tyrosine 774. The antibody does not cross-react with related tyrosine-phosphorylated proteins.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr774 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 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	1. Blake, T.J. et al. (1991) <i>Oncogene</i> 6, 653-657. 2. Thien, C.B. and Langdon, W.Y. (1998) <i>Immunol. Cell Biol.</i> 76, 473-482. 3. Christine, B.F. et al. (2001) <i>Nat. Rev. Mol. Cell Biol.</i> 2, 294-307. 4. Feshchenko, E.A. et al. (1998) <i>J. Biol. Chem.</i> 273, 8323-8331. 5. Kamei, T. et al. (2000) <i>Int. J. Oncol.</i> 17, 335-339. 6. Hunter, C. et al. (1999) <i>J. Biol. Chem.</i> 274, 2097-2106.					

Species Reactivity

Applications Key

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

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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