Revision 1

#9794 Store at -20°C

c-Cbl Antibody Sampler Kit

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Cell Signaling TECHNOLOGY®

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
c-Cbl (C49H8) Rabbit mAb	2179	40 µl	120 kDa	Rabbit IgG
Phospho-c-Cbl (Tyr731) Antibody	3554	40 µl	120 kDa	Rabbit
Phospho-c-Cbl (Tyr700) (D16D7) Rabbit mAb	8869	40 µl	120 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The c-Cbl Antibody Sampler Kit provides an economical means of evaluating levels of c-Cbl protein phosphorylated at the specified sites, as well as total c-Cbl levels. The kit contains enough reagents to perform four western blot experiments per primary antibody.

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.

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 References

1. Blake, T.J. et al. (1991) *Oncogene* 6, 653-657.
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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.

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