

Cbl

The *c-Cbl* proto-oncogene was first identified as a 120,000 Mr protein that was rapidly phosphorylated on tyrosine residues following the stimulation of a wide variety of receptors, including the T-cell receptor, the B cell receptor, the Fc receptor, the EGF receptor, the PDGF receptor, the CSF-1 receptor, as well as receptors for several cytokines (interleukin-3, granulocyte-macrophage colony-stimulating factor, granulocyte colony-stimulating factor, erythropoietin, and prolactin). *Cbl* contains 22 tyrosine residues as well as proline-rich domain, and thus can bind to many different molecules that contain either SH2 or SH3 domains.

Molecules that have been shown to bind to *c-Cbl* include *Crk*, *Crk-L*, *Grb2*, the p85 subunit of PI 3-kinase, *src*-like kinases, and members of the *Syk/ZAP70* family of tyrosine kinases suggesting that *Cbl* may function as a scaffolding molecule. *Cbl* may also function as a negative

regulator of the ZAP70. The recent finding that *c-Cbl* functions as a component of a ubiquitin ligase complex and thereby mediate down-regulation of the EGF receptor signaling events. Likewise the suggestion that *Cbl* may be associated with the insulin receptor in lipid rafts suggests other interesting roles for this complex molecule. Clearly *Cbl* is a molecule whose time has come!

1. Lupher, M. L., Andoniu, C. E., Bonita, D. P., Miyake, S., and Band, H. The *c-Cbl* oncoprotein. *Int.J.Biochem.Cell Biol.* 30: 439-444, 1998. (REVIEW)

2. Liu, Y.-C. and Altman, A. *Cbl*: Complex formation and functional implications. *Cell.Signal.* 10: 377-385, 1998. (REVIEW)

3. Murphy, M. A., Schnell, R. G., Venter, D. J., Barnett, L., Bertocello, I., Thien, C. B., Langdon, W. Y., and Bowtell, D. D. Tissue hyperplasia and enhanced T-cell signaling via ZAP-70 in *c-cbl*-deficient mice. *Mol.Cell.Biol.* 18: 4872-4882, 1998

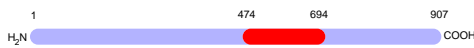
Anti-Human Cbl (clone 802H6)

Research Applications

Immunoprecipitation: 5 µg per sample

Product Description

Host / Ig Type: mouse monoclonal IgG
Purification: protein G chromatography
Immunogen: fusion protein; human sequence

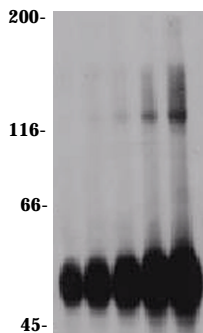


Specificity: **120 kD; need a statement here**
Reactivity: human, mouse
Storage: -20°C
Stability: 2 years

Catalog Information

Catalog Number: ABM-6336
Volume: 100 µg
Price: \$249

Quality Control



Immunoprecipitation:

32Dcl3 whole cell lysates were IP'd with anti-human Cbl (clone 802H6; 0.5, 1, 2, 5 and 10 micrograms/lane, respectively). Immune complexes were subjected to SDS-PAGE and immunoblotted with 1 microgram/ml anti-huCbl (clone A672AE).

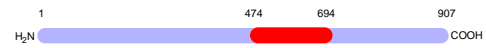
Anti-Human Cbl (clone A672E4)

Research Applications

Immunoblotting: 1-5 µg/ml

Product Description

Host / Ig Type: mouse monoclonal IgG
Purification: protein G chromatography
Immunogen: fusion protein; human sequence



Specificity: **120 kD; need a statement here**
Reactivity: human, mouse,
Storage: -20°C
Stability: 1 year

Catalog Information

Catalog Number: ABM-6340
Volume: 100 µg
Price: \$249

Quality Control



Western Immunoblotting:

32Dcl3 whole cell lysates (10, 25, 50 and 100 micrograms, respectively) subjected to SDS-PAGE and immunoblotted with 1 microgram/ml anti-human Cbl (clone A672AE).