

anti-c-Cbl

Cat #: HM1070
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

c-Cbl was identified as the cellular homolog of the murine Cas NS-1 leukemia retroviral oncogene *v-cbl*, which induces pre-B and B-myeloid leukemias. *v-cbl* represents a severely truncated form of the cellular homolog containing only the N-terminal amino acid of c-Cbl. c-Cbl is a 120 kDa protein, located in the cytoplasm and cytoskeleton, and is widely expressed in hematopoietic cell lines. c-Cbl comprises an N-terminal transforming region (Cbl-N), which contains a phosphotyrosine binding domain, a RING zinc-finger domain adjacent to Cbl-N, and a large C-terminal region (Cbl-C) containing a large proline-rich region and a leucine zipper. The proline-rich region contains multiple potential tyrosine phosphorylation sites and docking sites for SH2 and SH3-containing proteins. c-Cbl is involved in tyrosine kinase-dependent signaling pathways. It is one of the earliest targets of tyrosine phosphorylation in response to a number of cellular stimuli including T- and B-cell receptor activation. In addition, stimulation of growth factor receptors by EGF, PDGF, NGF and FGF, results in c-Cbl tyrosine phosphorylation, in lymphoid and other cell lines. Upon receptor activation, c-Cbl interacts with SH2 and SH3 domains of several cytoplasmic signaling proteins, including the tyrosine kinases Src, Fyn, Lck, Syk, and ZAP-70, the adaptor proteins Grb2, Nck, Shc, Crk-II and CrkL. In addition, c-Cbl can specifically associate with the p85β subunit of PI3-kinase.

SPECIFICITY

This antibody specifically recognizes c-Cbl of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A peptide corresponding to the C terminus of human c-Cbl p120.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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