Cbl-3 (C-17): sc-8372



The Power to Overtin

BACKGROUND

The c-Cbl proto-oncogene has been identified as the cellular homolog of the v-Cbl oncogene isolated from an NFS/N mouse that developed a pre-B cell lymphoma following infection with the replication-competent Cas-Br-M murine leukemic virus. c-Cbl is expressed at relatively high levels in a wide range of hematopoietic tumor cell lines as well as in normal tissues such as thymus and testis. The c-Cbl gene product has been identified as a 120 kDa nuclear protein with apparent DNA binding and dimerization domains characteristic of transcription factors. A single c-Cbl locus termed Cbl-2 has been mapped to human chromosome 11q23. Two proteins related to c-Cbl have been identified as Cbl-b and Cbl-3. Cbl-b has a predicted molecular weight of 108 kDa, with a proline-rich domain, a nuclear localization signal, a C3HC4 zinc finger and a putative leucine zipper. Cbl-b is expressed in normal and malignant mammary epithelial cells, various normal tissues and hematopoietic tissue and cell lines. Data suggests that Cbl-b encodes a protein which can interact with signal transduction proteins to regulate their function or be regulated by them.

REFERENCES

- 1. Regnier, D.C., et al. 1989. Identification of two murine loci homologous to the v-Cbl oncogene. J. Virol. 63: 3678-3682.
- Langdon, W.Y., et al. 1989. The c-Cbl proto-oncogene is preferentially expressed in thymus and testis tissue and encodes a nuclear protein. J. Virol. 63: 5420-5424.
- Langdon, W.Y., et al. 1989. v-Cbl, an oncogene from a dual-recombinant murine retrovirus that induces early B-lineage lymphomas. Proc. Natl. Acad. Sci. USA 86: 1168-1172.
- 4. Blake, T.J., et al. 1991. The seq-uences of the human and mouse c-Cbl proto-oncogenes show v-Cbl was generated by a large truncation encompassing a proline-rich domain and a leucine zipper-like motif. Oncogene 6: 653-657.
- 5. Keane, M.M., et al. 1995. Cloning and characterization of Cbl-b: a SH3 binding protein with homology to the c-Cbl proto-oncogene. Oncogene 10: 2367-2377.

CHROMOSOMAL LOCATION

Genetic locus: CBLC (human) mapping to 19q13.2.

SOURCE

Cbl-3 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Cbl-3 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8372 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

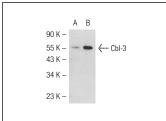
Cbl-3 (C-17) is recommended for detection of Cbl-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

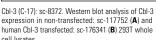
Suitable for use as control antibody for Cbl-3 siRNA (h): sc-40390, Cbl-3 shRNA Plasmid (h): sc-40390-SH and Cbl-3 shRNA (h) Lentiviral Particles: sc-40390-V.

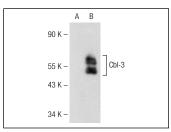
Molecular Weight of Cbl-3: 52 kDa.

Positive Controls: Cbl-3 (h3): 293T Lysate: sc-176341 or Cbl-3 (h2): 293T Lysate: sc-176246.

DATA







Cbl-3 (C-17): sc-8372. Western blot analysis of Cbl-3 expression in non-transfected: sc-117752 (**A**) and human Cbl-3 transfected: sc-176246 (**B**) 293T whole cell Ivsates.

SELECT PRODUCT CITATIONS

- Davies, G.C., et al. 2006. EGFRvIII undergoes activation-dependent downregulation mediated by the Cbl proteins. Oncogene 25: 6497-6509.
- 2. Yang, W.H., et al. 2011. Epigallocatechin-3-gallate induces cell apoptosis of human chondrosarcoma cells through apoptosis signal-regulating kinase 1 pathway. J. Cell. Biochem. 112: 1601-1611.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **CbI-3 (F-2):** sc-390648 or **CbI-3 (G-6):** sc-390649, our highly recommended monoclonal alternatives to CbI-3 (C-17).