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Bcl10 (m): 293T Lysate: sc-118789

BACKGROUND

Bcl10, also designated CIPER, c-CARMEN and mE10, was first identified as a gene truncated or mutated in MALT B cell lymphomas and other tumor types. Bcl10 is homologous to the equine herpesvirus-2 E10 gene and, like E10, it contains an N-terminal caspase recruitment domain (CARD). Expression of Bcl10 has been shown to induce NFκB activation in a NIK-dependent pathway, and research indicates that the CARD domain is essential for this activation; although in a separate study, Bcl10 by itself did not induce JNK or NFκB activation. Overexpression of Bcl10 has been shown to induce apoptosis in a manner dependent on CARD-mediated oligomerization. Bcl10 has also been shown to play a role in processing of caspase-9 to its active dimer. Other studies have shown that Bcl10 is not mutated in many human tumors and lymphomas.

REFERENCES

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- Zhou, H., et al. 2004. Bcl10 activates the NFκB pathway through ubiquitination of NEMO. *Nature* 427: 167-171.
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- Scharschmidt, E., et al. 2004. Degradation of Bcl10 induced by T cell activation negatively regulates NFκB signaling. *Mol. Cell. Biol.* 24: 3860-3873.
- Liu, Y. et al. 2004. Bcl10 mediates lipopolysaccharide/toll-like receptor-4 signaling through interaction with Pellino2. *J. Biol. Chem.* 279: 37436-37444.

CHROMOSOMAL LOCATION

Genetic locus: Bcl10 (mouse) mapping to 3 H2.

PRODUCT

Bcl10 (m): 293T Lysate represents a lysate of mouse Bcl10 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

Bcl10 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Bcl10 antibodies. Recommended use: 10-20 µl per lane.

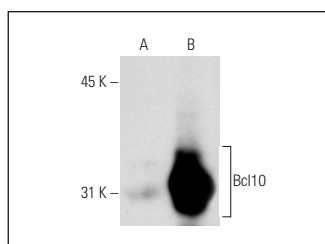
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Bcl10 (4F8E8H8): sc-32808 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Bcl10 expression in Bcl10 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

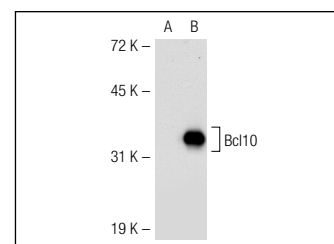
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Bcl10 (4F8E8H8): sc-32808. Western blot analysis of Bcl10 expression in non-transfected: sc-117752 (A) and mouse Bcl10 transfected: sc-118789 (B) 293T whole cell lysates.



Bcl10 (331.3): sc-5273. Western blot analysis of Bcl10 expression in non-transfected: sc-117752 (A) and mouse Bcl10 transfected: sc-118789 (B) 293T whole cell lysates.

PROTOCOLS

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