

Bcl-6 (h): 293T Lysate: sc-112636

BACKGROUND

Bcl-6, a transcriptional repressor, binds Stat recognition-like DNA elements and influences germinal center development and Th1/Th2 differentiation. Bcl-6 negatively regulates NF κ B expression, thereby inhibiting NF κ B-mediated cellular functions. HDAC- and silent information regulator (SIR)-2-dependent acetylation of Bcl-6 causes downregulation of activity by inhibiting the ability of Bcl-6 to recruit complexes containing histone deacetylases (HDAC). Bcl-6 is frequently deregulated in non-Hodgkin's B cell lymphomas. The human Bcl6 gene has been shown to encode a protein of 706 amino acids.

REFERENCES

1. Pasqualucci, L., et al. 2003. Molecular pathogenesis of non-Hodgkin's lymphoma: the role of Bcl-6. *Leuk. Lymphoma* 3: S5-S12.
2. Ree, H.J., et al. 2003. Detection of germinal center B cell lymphoma in archival specimens: critical evaluation of Bcl-6 protein expression in diffuse large B cell lymphoma of the tonsil. *Hum. Pathol.* 34: 610-616.
3. Logarajah, S., et al. 2003. Bcl-6 is expressed in breast cancer and prevents mammary epithelial differentiation. *Oncogene* 22: 5572-5578.
4. Bos, R., et al. 2003. Protein expression of B cell lymphoma gene 6 (Bcl6) in invasive breast cancer is associated with cyclin D1 and hypoxia-inducible factor-1 α (HIF-1 α). *Oncogene* 22: 8948-8951.
5. Kurosu, K., et al. 2004. Bcl-6 mutations in pulmonary lymphoproliferative disorders: demonstration of an aberrant immunological reaction in HIV-related lymphoid interstitial pneumonia. *J. Immunol.* 172: 7116-7122.
6. Tunyaplin, C., et al. 2004. Direct repression of PRDM1 by Bcl-6 inhibits plasmacytic differentiation. *J. Immunol.* 173: 1158-1165.
7. Ozaki, K., et al. 2004. Regulation of B cell differentiation and plasma cell generation by IL-21, a novel inducer of Blimp-1 and Bcl-6. *J. Immunol.* 173: 5361-5371.
8. Li, Z., et al. 2005. Bcl-6 negatively regulates expression of the NF κ B1 p105/p50 subunit. *J. Immunol.* 174: 205-214.
9. Harris, M.B., et al. 2005. Repression of an interleukin-4-responsive promoter requires cooperative Bcl-6 function. *J. Biol. Chem.* 280: 13114-13121.

CHROMOSOMAL LOCATION

Genetic locus: BCL6 (human) mapping to 3q27.3.

PRODUCT

Bcl-6 (h): 293T Lysate represents a lysate of human Bcl-6 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

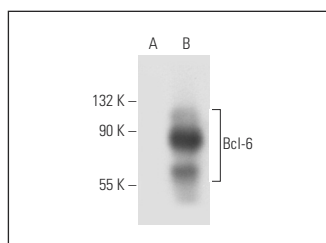
APPLICATIONS

Bcl-6 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Bcl-6 antibodies. Recommended use: 10-20 μ l per lane.

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

Bcl-6 (PG-B6P): sc-56625 is recommended as a positive control antibody for Western Blot analysis of enhanced human Bcl-6 expression in Bcl-6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Bcl-6 (PG-B6P): sc-56625. Western blot analysis of Bcl-6 expression in non-transfected: sc-117752 (A) and human Bcl-6 transfected: sc-112636 (B) 293T whole cell lysates.

RESEARCH USE

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