

Bcl-6 (7D1): sc-130916

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* 44: 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.

CHROMOSOMAL LOCATION

Genetic locus: BCL6 (human) mapping to 3q27.3; Bcl6 (mouse) mapping to 16 B1.

SOURCE

Bcl-6 (7D1) is a rat monoclonal antibody raised against a recombinant protein corresponding to amino acids 261-386 of Bcl-6 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Bcl-6 (7D1) is available conjugated to either phycoerythrin (sc-130916 PE) or fluorescein (sc-130916 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

Bcl-6 (7D1) is recommended for detection of Bcl-6 of mouse, rat and 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 flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for Bcl-6 siRNA (h): sc-29791, Bcl-6 siRNA (m): sc-29792, Bcl-6 shRNA Plasmid (h): sc-29791-SH, Bcl-6 shRNA Plasmid (m): sc-29792-SH, Bcl-6 shRNA (h) Lentiviral Particles: sc-29791-V and Bcl-6 shRNA (m) Lentiviral Particles: sc-29792-V.

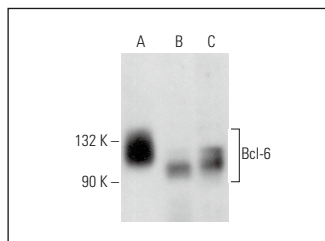
Molecular Weight of Bcl-6: 95 kDa.

Positive Controls: Daudi cell lysate: sc-2415, C6 whole cell lysate: sc-364373 or Raji whole cell lysate: sc-364236.

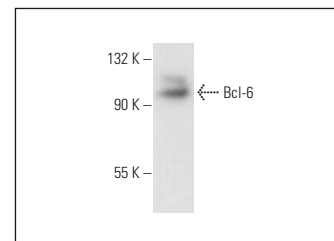
STORAGE

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

DATA



Bcl-6 (7D1): sc-130916. Western blot analysis of Bcl-6 expression in Daudi (A), Sol8 (B) and C6 (C) whole cell lysates.



Bcl-6 (7D1): sc-130916. Western blot analysis of Bcl-6 expression in Raji whole cell lysate.

SELECT PRODUCT CITATIONS

1. Mathieu, M., et al. 2012. CD40-activated B cells can efficiently prime antigen-specific naïve CD8⁺ T cells to generate effector but not memory T cells. *PLoS ONE* 7: e30139.
2. Daudelin, J.F., et al. 2013. IL-6 production by dendritic cells is dispensable for CD8⁺ memory T-cell generation. *Biomed Res. Int.* 2013: 126189.
3. Knudson, K.M., et al. 2013. Low-affinity T cells are programmed to maintain normal primary responses but are impaired in their recall to low-affinity ligands. *Cell Rep.* 4: 554-565.
4. Vogelzang, A., et al. 2014. Central memory CD4⁺ T cells are responsible for the recombinant *Bacillus Calmette-Guérin* Δ ureC::hly vaccine's superior protection against tuberculosis. *J. Infect. Dis.* 210: 1928-1937.
5. Wang, X., et al. 2015. NF κ B inhibitor reverses temozolomide resistance in human glioma TR/U251 cells. *Oncol. Lett.* 9: 2586-2590.
6. Meguro, K., et al. 2015. Role of Bcl-3 in the development of follicular helper T cells and in the pathogenesis of rheumatoid arthritis. 67: 2651-2660.
7. Gonzalez, D.G., et al. 2018. Nonredundant roles of IL-21 and IL-4 in the phased initiation of germinal center B cells and subsequent self-renewal transitions. *J. Immunol.* 201: 3569-3579.

RESEARCH USE

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



See **Bcl-6 (D-8): sc-7388** for Bcl-6 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.