

Bcl-6 (D-8): sc-7388



The Power to Question

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 (HDACs). Bcl-6 is frequently deregulated in non-Hodgkin's B cell lymphomas. The human Bcl-6 gene has been shown to encode a protein of 706 amino acids.

CHROMOSOMAL LOCATION

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

SOURCE

Bcl-6 (D-8) is a mouse monoclonal antibody raised against amino acids 3-484 mapping at the N-terminus of Bcl-6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG $_3$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-7388 X, 200 μ g/0.1 ml.

Bcl-6 (D-8) is available conjugated to agarose (sc-7388 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7388 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-7388 PE), fluorescein (sc-7388 FITC) or Alexa Fluor[®] 488 (sc-7388 AF488) or Alexa Fluor[®] 647 (sc-7388 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

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APPLICATIONS

Bcl-6 (D-8) 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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.

Bcl-6 (D-8) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Bcl-6: 95 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, Raji whole cell lysate: sc-364236 or Ramos cell lysate: sc-2216.

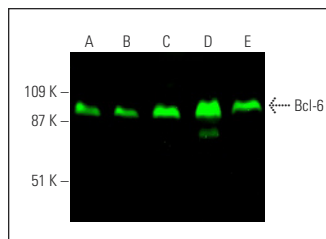
STORAGE

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

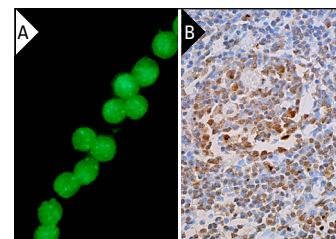
RESEARCH USE

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

DATA



Bcl-6 (D-8): sc-7388. Near-infrared western blot analysis of Bcl-6 expression in Ramos (A), U-698-M (B), Raji (C), BJAB (D) and NAMALWA (E) whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgGx BP-CFL 680: sc-516180.



Bcl-6 (D-8): sc-7388. Immunofluorescence staining of methanol-fixed BJAB cells showing nuclear localization (A). Bcl-6 (D-8) HRP: sc-7388 HRP. Direct immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing nuclear staining of cells in germinal center and cells in non-germinal center. Blocked with 0.25X UltraCruz[®] Blocking Reagent: sc-516214 (B).

SELECT PRODUCT CITATIONS

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- Schmitt, N., et al. 2014. The cytokine TGF- β co-opts signaling via Stat3-Stat4 to promote the differentiation of human TFH cells. *Nat. Immunol.* 15: 856-865.
- Xu, Y., et al. 2015. Loss of IRF8 inhibits the growth of diffuse large B-cell lymphoma. *J. Cancer* 6: 953-961.
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- Li, Y., et al. 2018. MiR-339-5p inhibits metastasis of non-small cell lung cancer by regulating the epithelial-to-mesenchymal transition. *Oncol. Lett.* 15: 2508-2514.
- Sommars, M.A., et al. 2019. Dynamic repression by Bcl-6 controls the genome-wide liver response to fasting and steatosis. *Elife* 8: e43922.
- Fabre, M.S., et al. 2020. The oncogene BCL6 is up-regulated in glioblastoma in response to DNA damage, and drives survival after therapy. *PLoS ONE* 15: e0231470.
- Bolognesi, M.M., et al. 2021. Antibodies validated for routinely processed tissues stain frozen sections unpredictably. *BioTechniques* 70: 137-148.
- Zelenka, T., et al. 2022. The 3D enhancer network of the developing T cell genome is shaped by SATB1. *Nat. Commun.* 13: 6954.

PROTOCOLS

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