SANTA CRUZ BIOTECHNOLOGY, INC.

# Bcl-6 (H-12): sc-365618

SANTA CRUZ BIOTECHNOLOGY

*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 NFκB expression, thereby inhibiting NFκB-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 Bcl6 gene has been shown to encode a protein of 706 amino acids.

## REFERENCES


1. 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.
2. Logarajah, S., et al. 2003. Bcl-6 is expressed in breast cancer and prevents mammary epithelial differentiation. Oncogene 22: 5572-5578.
3. Bos, R., et al. 2003. Protein expression of B-cell lymphoma gene 6 (Bcl-6) in invasive breast cancer is associated with cyclin $D_1$ and hypoxia-inducible factor-1α (HIF-1α). Oncogene 22: 8948-8951.


## CHROMOSOMAL LOCATION

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

## SOURCE

Bcl-6 (H-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 679-706 at the C-terminus of Bcl-6 of human origin.

## PRODUCT

Each vial contains 200 µg $IgG_1$ 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-365618 X, 200 µg/0.1 ml.

Bcl-6 (H-12) is available conjugated to agarose (sc-365618 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-365618 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365618 PE), fluorescein (sc-365618 FITC), Alexa Fluor® 488 (sc-365618 AF488), Alexa Fluor® 546 (sc-365618 AF546), Alexa Fluor® 594 (sc-365618 AF594) or Alexa Fluor® 647 (sc-365618 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365618 AF680) or Alexa Fluor® 790 (sc-365618 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-365618 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).



## STORAGE

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

## APPLICATIONS

Bcl-6 (H-12) is recommended for detection of Bcl-6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Bcl-6 (H-12) is also recommended for detection of Bcl-6 in additional species, including equine, canine, bovine and porcine.

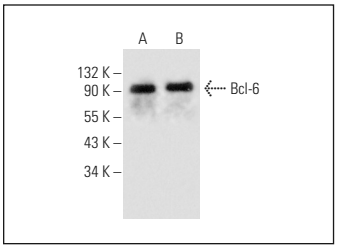
Suitable for use as control antibody for Bcl-6 siRNA (h): sc-29791, Bcl-6 siRNA (m): sc-29792, Bcl-6 shRNA Plasmid (h): sc-29791-SH, Bcl-6 shRNA Plasmid (m): sc-29792-SH, Bcl-6 shRNA (h) Lentiviral Particles: sc-29791-V and Bcl-6 shRNA (m) Lentiviral Particles: sc-29792-V.

Bcl-6 (H-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

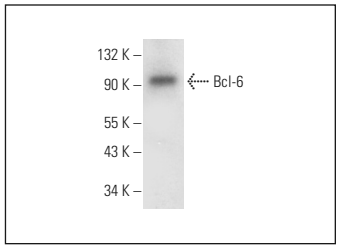
Molecular Weight of Bcl-6: 95 kDa.

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

## DATA




Bcl-6 (H-12): sc-365618. Western blot analysis of Bcl-6 expression in BJAB (**A**) and Raji (**B**) whole cell lysates.




Bcl-6 (H-12): sc-365618. Western blot analysis of Bcl-6 expression in Ramos whole cell lysate.

## SELECT PRODUCT CITATIONS


1. Wegner, W., et al. 2014. Transcriptional regulation of human organic anion transporter 1 by B-cell CLL/lymphoma 6. Am. J. Physiol. Renal Physiol. 307: F1283-F1291.
2. Wang, H., et al. 2016. A critical role of miR-144 in diffuse large B-cell lymphoma proliferation and invasion. Cancer Immunol. Res. 4: 337-344.
3. Ma, X., et al. 2017. Effect of follicular helper T cells on the pathogenesis of asthma. Exp. Ther. Med. 14: 967-972.
4. Choi, S.Y., et al. 2019. Crlz-1 controls germinal center reaction by relaying a Wnt signal to the Bcl-6 expression in centroblasts during humoral immune responses. J. Immunol. 203: 2630-2643.
5. He, L., et al. 2021. CRISPR/Cas9/AAV9-mediated *in vivo* editing identifies MYC regulation of 3D genome in skeletal muscle stem cell. Stem Cell Reports 16: 2442-2458.


## RESEARCH USE

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