SANTA CRUZ BIOTECHNOLOGY, INC.

Bcl-9L (H-225): sc-292150

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The Power to Question

BACKGROUND

Bcl-9L (B-cell CLL/lymphoma 9-like), also known as DLNB11, is a 1,499 amino acid protein that localizes to the nucleus and contains a specialized C-terminal domain that is important for its overall activity. Expressed in breast tissue, as well as in eye, lung, prostate and various carcinomas, Bcl-9L functions as a transcriptional activator that forms a complex with Parafibromin and β-catenin and is thought promote the transcriptional activity of Parafibromin and enhance the neoplastic transforming activity of β-catenin. Bcl-9L exists as multiple alternatively spliced isoforms and is thought to be involved in tumorigenesis, possibly playing a role in tumor transformation and metastasis. The gene encoding Bcl-9L maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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3. Brembeck, F.H., Schwarz-Romond, T., Bakkers, J., Wilhelm, S., Hammerschmidt, M. and Birchmeier, W. 2004. Essential role of Bcl9-2 in the switch between β-catenin's adhesive and transcriptional functions. Genes Dev. 18: 2225-2230.
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6. Sampietro, J., Dahlberg, C.L., Cho, U.S., Hinds, T.R., Kimelman, D. and Xu, W. 2006. Crystal structure of a β-catenin/Bcl9/Tcf4 complex. Mol. Cell. 24: 293-300.

CHROMOSOMAL LOCATION

Genetic locus: BCL9L (human) mapping to 11q23.3; Bcl9l (mouse) mapping to 9 A5.2.

SOURCE

Bcl-9L (H-225) is a rabbit polyclonal antibody raised against amino acids 1-225 mapping at the N-terminus of Bcl-9L of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Bcl-9L (H-225) is recommended for detection of Bcl-9L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Suitable for use as control antibody for Bcl-9L siRNA (h): sc-96389, Bcl-9L siRNA (m): sc-105118, Bcl-9L shRNA Plasmid (h): sc-96389-SH, Bcl-9L shRNA Plasmid (m): sc-105118-SH, Bcl-9L shRNA (h) Lentiviral Particles: sc-96389-V and Bcl-9L shRNA (m) Lentiviral Particles: sc-105118-V.

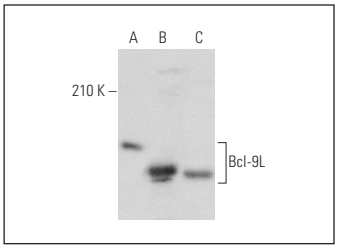
Molecular Weight of Bcl-9L: 157 kDa.

Positive Controls: RAW 264.7 nuclear extract: sc-24961, SP2/0 whole cell lysate: sc-364795 or mouse testis extract: sc-2405.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Bcl-9L (H-225): sc-292150. Western blot analysis of Bcl-9L expression in RAW 264.7 (**A**) and SP2/0 (**B**) whole cell lysates and mouse testis tissue extract (**C**).

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.

PROTOCOLS

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