

Bcl-G (H-300): sc-98696

BACKGROUND

Apoptosis is defined as a set of cascades which, when initiated, program the cell to undergo lethal changes, such as membrane blebbing, mitochondrial breakdown and DNA fragmentation. Bcl-2 is one of many key regulators of apoptosis that are essential for proper development, tissue homeostasis and protection against foreign pathogens. Bcl-G, also known as BCL2L14 (BCL2-like 14) or BCLG, is a 327 amino acid cytoplasmic protein that belongs to the Bcl-2 family of apoptosis-regulating proteins. Bcl-G is expressed as three alternatively spliced transcripts, designated short, medium and long. The short isoform is testis-specific and localizes to cytosolic organelles, while the long isoform is widely expressed and is distributed throughout the cytosol. Overexpression of Bcl-G induces apoptosis in cells, suggesting a possible role for Bcl-G in tumor suppression.

REFERENCES

- Guo, B., et al. 2001. Bcl-G, a novel pro-apoptotic member of the Bcl-2 family. *J. Biol. Chem.* 276: 2780-2785.
- Ozalp, S.S., et al. 2002. Bcl-2 expression in preinvasive and invasive cervical lesions. *Eur. J. Gynaecol. Oncol.* 23: 419-422.
- Abdelhaleem, M., et al. 2006. A novel TEL-AML-1 fusion transcript involving the pro-apoptotic gene BCLG in pediatric precursor B acute lymphoblastic leukemia. *Leukemia* 20: 1294-1294.

CHROMOSOMAL LOCATION

Genetic locus: BCL2L14 (human) mapping to 12p13.2; Bcl2l14 (mouse) mapping to 6 G1.

SOURCE

Bcl-G (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Bcl-G 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-G (H-300) is recommended for detection of Bcl-G 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-G siRNA (h): sc-72631, Bcl-G siRNA (m): sc-72632, Bcl-G shRNA Plasmid (h): sc-72631-SH, Bcl-G shRNA Plasmid (m): sc-72632-SH, Bcl-G shRNA (h) Lentiviral Particles: sc-72631-V and Bcl-G shRNA (m) Lentiviral Particles: sc-72632-V.

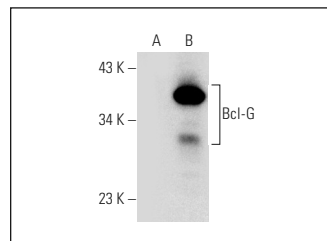
Molecular Weight of Bcl-G: 30 kDa.

Positive Controls: Bcl-G (h): 293T Lysate: sc-114123 or A549 cell lysate: sc-2413.

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-G (H-300): sc-98696. Western blot analysis of Bcl-G expression in non-transfected: sc-117752 (A) and human Bcl-G transfected: sc-114123 (B) 293T whole cell lysates.

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.



Try **Bcl-G (E-10): sc-398223** or **Bcl-G (F-8): sc-393715**, our highly recommended monoclonal alternatives to Bcl-G (H-300).