

Bcl-6b (S-13): sc-107454

BACKGROUND

Bcl-6, a transcriptional repressor, binds Stat recognition-like DNA elements and influences germinal center development and cell differentiation. Additionally, Bcl-6 negatively regulates NF κ B expression, thereby inhibiting NF κ B-mediated cellular functions. Bcl-6b (B-cell CLL/lymphoma 6, member B), also known as ZNF62, BAZF or ZBTB28, is a 480 amino acid nuclear protein that contains one BTB (POZ) domain and five C₂H₂-type zinc fingers. Expressed ubiquitously with highest expression in placenta and heart, Bcl-6b associates with Bcl-6 and functions as a sequence-specific transcriptional repressor that is thought to be necessary for early B-cell development. The gene encoding Bcl-6b maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

1. Bray, P., et al. 1991. Characterization and mapping of human genes encoding zinc finger proteins. *Proc. Natl. Acad. Sci. USA* 88: 9563-9567.
2. Okabe, S., et al. 1998. BAZF, a novel Bcl-6 homolog, functions as a transcriptional repressor. *Mol. Cell. Biol.* 18: 4235-4244.
3. Fitzgibbon, J., et al. 2000. Assignment of B-cell lymphoma 6, member B (zinc finger protein) gene (Bcl-6b) to human chromosome 17p13.1 by *in situ* hybridization. *Cytogenet. Cell Genet.* 89: 218-219.
4. Sakashita, C., et al. 2002. Cloning and characterization of the human BAZF gene, a homologue of the Bcl-6 oncogene. *Biochem. Biophys. Res. Commun.* 291: 567-573.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608992. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Takenaga, M., et al. 2003. Bcl-6-dependent transcriptional repression by BAZF. *Biochem. Biophys. Res. Commun.* 303: 600-608.
7. Takamori, M., et al. 2004. BAZF is required for activation of naive CD4 T cells by TCR triggering. *Int. Immunol.* 16: 1439-1449.

CHROMOSOMAL LOCATION

Genetic locus: BCL6B (human) mapping to 17p13.1; Bcl6b (mouse) mapping to 11 B3.

SOURCE

Bcl-6b (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Bcl-6b of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-107454 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Bcl-6b (S-13) is recommended for detection of Bcl-6b 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Bcl-6b siRNA (h): sc-94148, Bcl-6b siRNA (m): sc-141670, Bcl-6b shRNA Plasmid (h): sc-94148-SH, Bcl-6b shRNA Plasmid (m): sc-141670-SH, Bcl-6b shRNA (h) Lentiviral Particles: sc-94148-V and Bcl-6b shRNA (m) Lentiviral Particles: sc-141670-V.

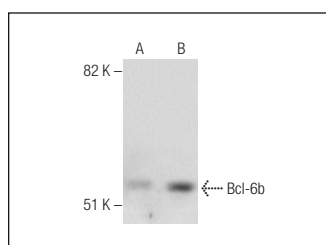
Molecular Weight of Bcl-6b: 52 kDa.

Positive Controls: MEG-01 nuclear extract: sc-2150 or HEL 92.1.7 nuclear extract.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Bcl-6b (S-13): sc-107454. Western blot analysis of Bcl-6b expression in MEG-01 (A) and HEL 92.1.7 (B) nuclear extracts.

STORAGE

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

PROTOCOLS

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