

Bcl-6b (N-12): sc-107453

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 5 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 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus 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-107453 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 (N-12) 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), 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-6b (N-12) is also recommended for detection of Bcl-6b in additional species, including canine, bovine and porcine.

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.

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) 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.

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.