

# BTEB2 (A-16): sc-12998

## BACKGROUND

Members of the C<sub>2</sub>H<sub>2</sub> zinc finger family bind GC-rich motifs widely distributed in gene promoters, resulting in distinct activation or repression of transcriptional activities. In addition to Sp1, Sp2, Sp3, and Sp4, the basic transcription element binding proteins-1 and -2 (BTEB1 and BTEB2, respectively), belong to this family of transcriptional regulators. BTEB2 binds the GC-box of DNA and is expressed in fetal aorta. BTEB2 is a target for Egr-1. Expression of BTEB2 is activated by mitogen-activated protein kinase pathways. BTEB2 expression is induced in the neointima in response to vascular injury and is involved in phenotypic modulation of vascular smooth muscle cells in response to mitogen stimulation through Egr-1.

## CHROMOSOMAL LOCATION

Genetic locus: KLF5 (human) mapping to 13q22.1; Klf5 (mouse) mapping to 14 E2.2.

## SOURCE

BTEB2 (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BTEB2 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.

Blocking peptide available for competition studies, sc-12998 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-12998 X, 200 µg/0.1 ml.

## STORAGE

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

## APPLICATIONS

BTEB2 (A-16) is recommended for detection of BTEB2 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). BTEB2 (A-16) is also recommended for detection of BTEB2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BTEB2 siRNA (h): sc-37718, BTEB2 siRNA (m): sc-37719, BTEB2 shRNA Plasmid (h): sc-37718-SH, BTEB2 shRNA Plasmid (m): sc-37719-SH, BTEB2 shRNA (h) Lentiviral Particles: sc-37718-V and BTEB2 shRNA (m) Lentiviral Particles: sc-37719-V.

BTEB2 (A-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

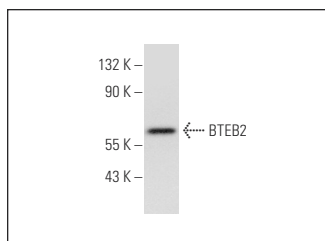
Molecular Weight of BTEB2: 51 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, SW480 nuclear extract: sc-2155 or NIH/3T3 nuclear extract: sc-2138.

## 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



BTEB2 (A-16): sc-12998. Western blot analysis of BTEB2 expression in CCRF-CEM whole cell lysate.

## SELECT PRODUCT CITATIONS

- Bidder, M., et al. 2002. Osteopontin transcription in aortic vascular smooth muscle cells is controlled by glucose-regulated upstream stimulatory factor and activator protein-1 activities. *J. Biol. Chem.* 277: 44485-44496.
- Piccinni, S.A., et al. 2004. Krüppel-like factors regulate the Lama1 gene encoding the laminin  $\alpha$ 1 chain. *J. Biol. Chem.* 279: 9103-9114.
- Ishimaru, N., et al. 2006. Regulation of neurotrophin-3 gene transcription by Sp3 and Sp4 in neurons. *J. Neurochem.* 100: 520-531.
- Dolfini, D., et al. 2012. The short isoform of NF-YA belongs to the embryonic stem cell transcription factor circuitry. *Stem Cells* 30: 2450-2459.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **BTEB2 (G-7): sc-398470** or **BTEB2 (A-5): sc-398014**, our highly recommended monoclonal alternatives to BTEB2 (A-16).