

BTEB2 (H-300): sc-22797

BACKGROUND

Members of the C₂H₂ 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 (H-300) is a rabbit polyclonal antibody raised against amino acids 167-286 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-22797 X, 200 µg/0.1 ml.

APPLICATIONS

BTEB2 (H-300) 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 (H-300) 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 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BTEB2: 51 kDa.

Positive Controls: BTEB2 (m2): 293T Lysate: sc-118867, BTEB2 (h): 293T Lysate: sc-172356 or HeLa nuclear extract: sc-2120.

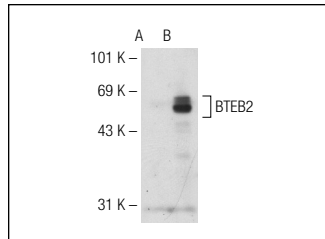
STORAGE

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

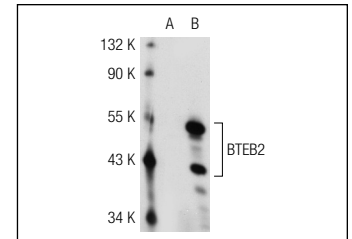
RESEARCH USE

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

DATA



BTEB2 (H-300): sc-22797. Western blot analysis of BTEB2 expression in non-transfected: sc-117752 (A) and human BTEB2 transfected: sc-172356 (B) 293T whole cell lysates.



BTEB2 (H-300): sc-22797. Western blot analysis of BTEB2 expression in non-transfected: sc-117752 (A) and mouse BTEB2 transfected: sc-118867 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Gao, D., et al. 2006. Regulation of angiotensin II-induced Krüppel-like factor 5 expression in vascular smooth muscle cells. *Biol. Pharm. Bull.* 29: 2004-2008.
- Frigo, D.E., et al. 2009. Induction of Krüppel-like factor 5 expression by androgens results in increased CXCR4-dependent migration of prostate cancer cells *in vitro*. *Mol. Endocrinol.* 23: 1385-1396.
- Liu, N., et al. 2010. The Fbw7/human CDC4 tumor suppressor targets proliferative factor KLF5 for ubiquitination and degradation through multiple phosphodegron motifs. *J. Biol. Chem.* 285: 18858-18867.
- Kinoshita, M., et al. 2010. Regulation of adipocyte differentiation by activation of serotonin (5-HT) receptors 5-HT2AR and 5-HT2CR and involvement of microRNA-448-mediated repression of KLF5. *Mol. Endocrinol.* 24: 1978-1987.
- Chen, C.J., et al. 2011. Association of expression of Krüppel-like factor 4 and Krüppel-like factor 5 with the clinical manifestations of breast cancer. *Pathol. Oncol. Res.* 18: 161-168.
- Soon, M.S., et al. 2011. Expression of Krüppel-like factor 5 in gastric cancer and its clinical correlation in Taiwan. *Virchows Arch.* 459: 161-166.
- McConnell, B.B., et al. 2011. Krüppel-like factor 5 is important for maintenance of crypt architecture and barrier function in mouse intestine. *Gastroenterology* 141: 1302-1313, 1313.e1-1313.e16.
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Try **BTEB2 (G-7): sc-398470** or **BTEB2 (A-5): sc-398014**, our highly recommended monoclonal alternatives to BTEB2 (H-300).