

ZBTB (F-16): sc-109482

BACKGROUND

The BTB (broad-complex, tramtrack and bric a brac) domain, also known as the POZ (poxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or C₂H₂-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. Members of the Zinc finger and BTB domain-containing protein family usually contain 1 BTB (POZ) domain and a varying number of C₂H₂-type zinc fingers, and are implicated in transcriptional regulation. Highly homologous members of the ZBTB family include ZBTB9, ZBTB22, ZBTB24, ZBTB37 and ZBTB43.

REFERENCES

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3. Ahmad, K.F., Engel, C.K. and Prive, G.G. 1998. Crystal structure of the BTB domain from PLZF. *Proc. Natl. Acad. Sci. USA* 95: 12123-12128.
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5. Kimura, K., Wakamatsu, A., Suzuki, Y., Ota, T., Nishikawa, T., Yamashita, R., Yamamoto, J., Sekine, M., Tsuritani, K., Wakaguri, H., Ishii, S., Sugiyama, T., Saito, K., Isono, Y., Irie, R., Kushida, N., Yoneyama, T., et al. 2006. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. *Genome Res.* 16: 55-65.

SOURCE

ZBTB (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZBTB43 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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

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.

APPLICATIONS

ZBTB (F-16) is recommended for detection of ZBTB22, ZBTB34, ZBTB37, ZBTB43, and to a lesser extent, ZBTB9, ZBTB24 and ZNF295 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); may cross-react with IPP.

ZBTB (F-16) is also recommended for detection of ZBTB22, ZBTB34, ZBTB37, ZBTB43, and to a lesser extent, ZBTB9, ZBTB24 and ZNF295 in additional species, including equine, canine, bovine, porcine and avian.

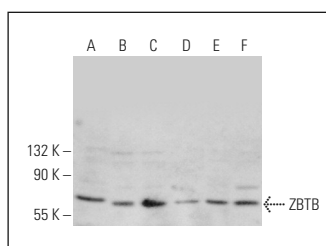
Molecular Weight of ZBTB: 53/66/78/38/56/40/34/53 kDa.

Positive Control: HeLa nuclear extract: sc-2120, MOLT-4 nuclear extract: sc-2151 or HL-60 whole cell lysate: sc-2209.

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



ZBTB (F-16): sc-109482. Western blot analysis of ZBTB expression in HeLa (A), K-562 (B), MOLT-4 (C) and IMR-32 (D) nuclear extracts and HEK293 (E) and HL-60 (F) whole cell lysates.

RESEARCH USE

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