

ZBTB20 (A-14): sc-99728

BACKGROUND

Zinc finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZBTB20 (zinc finger and BTB domain containing 20), also known as HOF, DPZF, ODA-8S or ZNF288, is a 741 amino acid protein that localizes to the nucleus and contains one BTB (POZ) domain and 5 C₂H₂-type zinc fingers. Expressed in thymus, spleen, lymph node and fetal liver, ZBTB20 exists as either a monomer or a homodimer that is thought to function as a transcription factor, playing a role in hematopoiesis, oncogenesis and immune responses. Multiple isoforms of ZBTB20 exist due to alternative splicing events.

REFERENCES

1. Harboe, T.L., et al. 2000. Assignment of the human zinc finger gene, ZNF288, to chromosome 3 band q13.2 by radiation hybrid mapping and fluorescence *in situ* hybridisation. *Cytogenet. Cell Genet.* 89: 156-157.
2. Zhang, W., et al. 2001. Identification and characterization of DPZF, a novel human BTB/POZ zinc finger protein sharing homology to Bcl-6. *Biochem. Biophys. Res. Commun.* 282: 1067-1073.
3. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606025. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Mitchelmore, C., et al. 2002. Characterization of two novel nuclear BTB/POZ domain zinc finger isoforms. Association with differentiation of hippocampal neurons, cerebellar granule cells, and macroglia. *J. Biol. Chem.* 277: 7598-7609.
5. Nielsen, J.V., et al. 2007. Hippocampus-like corticoneurogenesis induced by two isoforms of the BTB-zinc finger gene *Zbtb20* in mice. *Development* 134: 1133-1140.
6. Xie, Z., et al. 2008. Zinc finger protein ZBTB20 is a key repressor of α -feto-protein gene transcription in liver. *Proc. Natl. Acad. Sci. USA* 105: 10859-10864.

CHROMOSOMAL LOCATION

Genetic locus: ZBTB20 (human) mapping to 3q13.31; *Zbtb20* (mouse) mapping to 16 B4.

SOURCE

ZBTB20 (A-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of ZBTB20 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-99728 X, 100 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-99728 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

ZBTB20 (A-14) is recommended for detection of ZBTB20 of mouse 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ZBTB family members.

ZBTB20 (A-14) is also recommended for detection of ZBTB20 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZBTB20 siRNA (h): sc-78021, ZBTB20 siRNA (m): sc-155438, ZBTB20 shRNA Plasmid (h): sc-78021-SH, ZBTB20 shRNA Plasmid (m): sc-155438-SH, ZBTB20 shRNA (h) Lentiviral Particles: sc-78021-V and ZBTB20 shRNA (m) Lentiviral Particles: sc-155438-V.

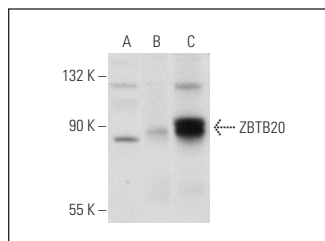
ZBTB20 (A-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of ZBTB20: 81 kDa.

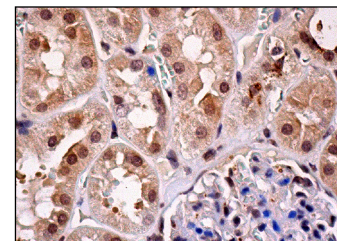
Molecular Weight (observed) of ZBTB20: 89 kDa.

Positive Controls: mouse prostate extract: sc-364249, mouse brain extract: sc-2253 or HeLa whole cell lysate: sc-2200.

DATA



ZBTB20 (A-14): sc-99728. Western blot analysis of ZBTB20 expression in HeLa whole cell lysate (A) and mouse prostate (B) and mouse brain (C) tissue extracts.



ZBTB20 (A-14): sc-99728. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing nuclear and cytoplasmic staining of cells in tubules.

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.



Try **ZBTB20 (E-11): sc-515370** or **ZBTB20 (1F3): sc-293318**, our highly recommended monoclonal alternatives to ZBTB20 (A-14).