# SANTA CRUZ BIOTECHNOLOGY, INC.

# ZBTB20 (E-11): sc-515370



## 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 five  $C_2H_2$ -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.
- 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<sup>™</sup>. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606025. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 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.
- 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.

## **CHROMOSOMAL LOCATION**

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

#### SOURCE

ZBTB20 (E-11) is a mouse monoclonal antibody raised against amino acids 383-605 mapping within an internal region of ZBTB20 of human origin.

#### PRODUCT

Each vial contains 200  $\mu$ g lgG<sub>1</sub> 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-515370 X, 200  $\mu$ g/0.1 ml.

ZBTB20 (E-11) is available conjugated to agarose (sc-515370 AC), 500 μg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515370 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515370 PE), fluorescein (sc-515370 FITC), Alexa Fluor<sup>®</sup> 488 (sc-515370 AF488), Alexa Fluor<sup>®</sup> 546 (sc-515370 AF546), Alexa Fluor<sup>®</sup> 594 (sc-515370 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-515370 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-515370 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-515370 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

ZBTB20 (E-11) is recommended for detection of ZBTB20 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

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 (E-11) 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: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or human spleen extract: sc-363779.

## DATA





ZBTB20 (E-11): sc-515370. Western blot analysis of ZBTB20 expression in HeLa (A) and Jurkat (B) nuclear extracts, HL-60 (C) and Jurkat (D) whole cell lysates and human spleen tissue extract (E). Detection reagent used: m-IgG<sub>1</sub> BP-HRP: sc-525408.

ZBTB20 (E-11): sc-515370. Western blot analysis of ZBTB20 expression in HeLa ( $\mathbf{A}$ ) and Jurkat ( $\mathbf{B}$ ) nuclear extracts and human spleen tissue extract ( $\mathbf{C}$ ).

## SELECT PRODUCT CITATIONS

- Ochi, M., et al. 2020. HBx increases EGFR expression by inhibiting miR129-5p function. Biochem. Biophys. Res. Commun. 529: 198-203.
- Liu, B., et al. 2021. Circular RNA circZbtb20 maintains ILC3 homeostasis and function via Alkbh5-dependent m6A demethylation of Nr4a1 mRNA. Cell. Mol. Immunol. 18: 1412-1424.

## **STORAGE**

Store at 4° C, \*\*D0 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.

Alexa Fluor $^{\circ}$  is a trademark of Molecular Probes, Inc., Oregon, USA