



## ZNF444 (A-19): sc-102223

### 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. As a member of the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc finger protein family, ZNF444 (zinc finger protein 444), also known as EZF2 or zinc finger and SCAN domain-containing protein 17 (ZSCAN17), is a 327 amino acid transcriptional regulator. ZNF444 localizes to the nucleus and contains four C<sub>2</sub>H<sub>2</sub>-type zinc fingers and one SCAN domain. The SCAN domain is a highly conserved motif that is found near the N-terminus of a subfamily of C<sub>2</sub>H<sub>2</sub> zinc finger proteins. The SCAN domain helps to mediate self-association or selective association with other proteins bearing the SCAN domain. Two isoforms of ZNF444 exist due to alternative splicing events.

### REFERENCES

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7. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. *Yi Chuan* 28: 1451-1456.
8. Yang, L., et al. 2008. The previously undescribed ZKSCAN3 (ZNF306) is a novel "driver" of colorectal cancer progression. *Cancer Res.* 68: 4321-4330.
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### CHROMOSOMAL LOCATION

Genetic locus: ZNF444 (human) mapping to 19q13.42; Zfp444 (mouse) mapping to 7 A1.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

### SOURCE

ZNF444 (A-19) is a purified rabbit polyclonal antibody raised against ZNF444 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

### APPLICATIONS

ZNF444 (A-19) is recommended for detection of ZNF444 of mouse, rat, human and dog 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF444 siRNA (h): sc-97099, ZNF444 siRNA (m): sc-155719, ZNF444 shRNA Plasmid (h): sc-97099-SH, ZNF444 shRNA Plasmid (m): sc-155719-SH, ZNF444 shRNA (h) Lentiviral Particles: sc-97099-V and ZNF444 shRNA (m) Lentiviral Particles: sc-155719-V.

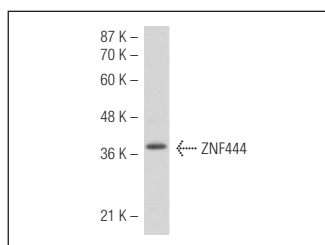
Molecular Weight of ZNF444: 35 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

### DATA



ZNF444 (A-19): sc-102223. Western blot analysis of ZNF444 expression in Jurkat whole cell lysate.

### RESEARCH USE

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