ZFP319 (Q-17): sc-249428



The Power to Question

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. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZFP319 (zinc finger protein 319) is a 582 amino acid protein that contains 16 $\rm C_2H_2$ -type zinc fingers. Localizes to the nucleus, ZFP319 is thought to play a role in transcriptional regulation events. The gene encoding ZFP1 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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- Chowdhury, K., et al. 1989. Structure, expression and chromosomal localization of Zfp-1, a murine zinc finger protein gene. Nucleic Acids Res. 17: 10427-10438.
- South, T.L., et al. 1990. Zinc fingers and molecular recognition. Structure and nucleic acid binding studies of an HIV zinc finger-like domain. Biochem. Pharmacol. 40: 123-129.
- 4. Gilbert, F. 1999. Disease genes and chromosomes: disease maps of the human genome. Chromosome 16. Genet. Test. 3: 243-254.
- 5. Sun, Y., et al. 2003. The KRAB domain of zinc finger gene ZNF268: a potential transcriptional repressor. IUBMB Life 55: 127-131.
- 6. O'Geen, H., et al. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. PLoS Genet. 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF319 (human) mapping to 16q21; Zfp319 (mouse) mapping to 8 D1.

SOURCE

ZFP319 (0-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZFP319 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249428 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.

RESEARCH USE

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

APPLICATIONS

ZFP319 (Q-17) is recommended for detection of ZFP319 of mouse, rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ZFP319 (Q-17) is also recommended for detection of ZFP319 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for ZFP319 siRNA (h): sc-93080, ZFP319 siRNA (m): sc-155546, ZFP319 shRNA Plasmid (h): sc-93080-SH, ZFP319 shRNA Plasmid (m): sc-155546-SH, ZFP319 shRNA (h) Lentiviral Particles: sc-93080-V and ZFP319 shRNA (m) Lentiviral Particles: sc-155546-V.

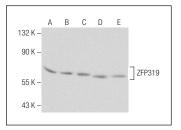
Molecular Weight of ZFP319: 66 kDa.

Positive Controls: A549 cell lysate: sc-2413, MCF7 whole cell lysate: sc-2206, U-87 MG whole cell lysate: sc-2411.

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



ZFP319 (Q-17): sc-249428. Western blot analysis of ZFP319 expression in A549 (**A**), MCF7 (**B**), U-87 MG (**C**), KNRK (**D**) and Caki-1 (**E**) whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.