

# ZFP319 (G-16): sc-249427

## 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 C<sub>2</sub>H<sub>2</sub>-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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2. Chowdhury, K., Dietrich, S., Balling, R., Guenet, J.L. and Gruss, P. 1989. Structure, expression and chromosomal localization of Zfp-1, a murine zinc finger protein gene. *Nucleic Acids Res.* 17: 10427-10438.
3. South, T.L., Kim, B., Hare, D.R. and Summers, M.F. 1990. Zinc fingers and molecular recognition. Structure and nucleic acid binding studies of an HIV zinc finger-like domain. *Biochem. Pharmacol.* 40: 123-129.
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## CHROMOSOMAL LOCATION

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

## SOURCE

ZFP319 (G-16) 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249427 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.

## APPLICATIONS

ZFP319 (G-16) 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), 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 (G-16) 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.

## 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) 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.