

# ZNF407 (E-17): sc-85236



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. As a member of the krueppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family, ZNF407 (zinc finger protein 407) is a 2,248 amino acid nuclear protein that contains 22 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. The gene encoding ZNF407 maps to human chromosome 18, in a region that is frequently found to be affected in 18q deletion syndrome, a multiple-anomaly mental retardation syndrome. There are three isoforms of ZNF407 that are expressed as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ZNF407 (human) mapping to 18q22.3; Zfp407 (mouse) mapping to 18 E4.

## SOURCE

ZNF407 (E-17)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZNF407 of human origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PRODUCT

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

Blocking peptide available for competition studies, sc-85236 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-85236 X, 100 µg/0.1 ml.

## APPLICATIONS

ZNF407 (E-17)-R is recommended for detection of ZNF407 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); non cross-reactive with other ZNF family members.

ZNF407 (E-17) is also recommended for detection of ZNF407 in additional species, including porcine and avian.

Suitable for use as control antibody for ZNF407 siRNA (h): sc-76985, ZNF407 siRNA (m): sc-155710, ZNF407 shRNA Plasmid (h): sc-76985-SH, ZNF407 shRNA Plasmid (m): sc-155710-SH, ZNF407 shRNA (h) Lentiviral Particles: sc-76985-V and ZNF407 shRNA (m) Lentiviral Particles: sc-155710-V.

ZNF407 (E-17)-R X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZNF407: 247 kDa.

## 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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.