**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 Krüppel C2H2-type zinc-finger protein family, ZNF516 (zinc-finger protein 516) is a 1,163 amino acid nuclear protein that contains 10 C2H2-type zinc-fingers. The gene encoding ZNF516 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 that is associated with congenital aural atresia.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ZNF516 (human) mapping to 18q23; Zfp516 (mouse) mapping to 18 E3.

**SOURCE**

ZNF516 (G-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZNF516 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-85242 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-85242 X, 200 µg/0.1 ml.

**APPLICATIONS**

ZNF516 (G-14) is recommended for detection of ZNF516 of mouse, rat and human 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)], 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. ZNF516 (G-14) is also recommended for detection of ZNF516 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZNF516 siRNA (h): sc-76992, ZNF516 siRNA (m): sc-155736, ZNF516 shRNA Plasmid (h): sc-76992-Sh, ZNF516 shRNA Plasmid (m): sc-155736-Sh, ZNF516 shRNA (h) Lentiviral Particles: sc-76992-V and ZNF516 shRNA (m) Lentiviral Particles: sc-155736-V.

ZNF516 (G-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZNF516: 124 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: 1:2000-1:10000) 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), 3) 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 or our catalog for detailed protocols and support products.