SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF141 (S-12): sc-104773

SANTA CRUZ BIOTECHNOLOGY

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_2H_2-type zinc-finger protein family, ZNF141 (Zinc-finger protein 141) is a 474 amino acid nuclear protein that contains one KRAB domain and eleven C_2H_2-type zinc fingers. ZNF141 acts as a transcription repressor and is expressed ubiquitously at low levels. The gene encoding ZNF141 maps within a region of human chromosome 4 that is deleted in Wolf-Hirschhorn syndrome, a condition that leads to severe abnormalities such as microencephaly, mental retardation, cleft lip and/or cleft palate, seizures and poor muscle tone.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF141 (human) mapping to 4p16.3.

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.

SOURCE

ZNF141 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF141 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-104773 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-104773 X, 200 µg/0.1 ml.

APPLICATIONS

ZNF141 (S-12) is recommended for detection of ZNF141 of 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); may cross-react with ZNF718.

Suitable for use as control antibody for ZNF141 siRNA (h): sc-89148, ZNF141 shRNA Plasmid (h): sc-89148-SH and ZNF141 shRNA (h) Lentiviral Particles: sc-89148-V.

ZNF141 (S-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZNF141: 55 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 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.

PROTOCOLS

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