SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF141 (V-21): sc-134171

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.

SOURCE

ZNF141 (V-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic ZNF141 peptide of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZNF141 (V-21) is recommended for detection of ZNF141 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

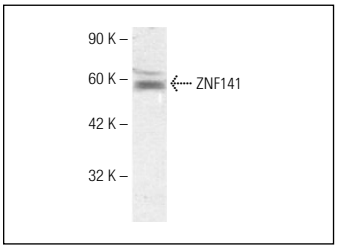
Molecular Weight of ZNF141: 55 kDa.

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 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



ZNF141 (V-21): sc-134171. Western blot analysis of ZNF141 expression in Jurkat whole cell lysate.

STORAGE

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

PROTOCOLS

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