SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF313 (S-19): sc-86040

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. ZNF313 (zinc-finger protein 313), also known as RNF114 (RING-finger protein 114) or ZNF228, is a 228 amino acid protein that contains one RING-type zinc finger (a domain that can bind 2 zinc atoms and is involved in the ubiquitination pathway) and is expressed abundantly in mature testes. Existing as two isoforms due to alternative splicing events, ZNF313 is thought to play a role in spermatogenesis and male fertility. In addition, the gene encoding ZNF313 may be associated with an increased susceptibility to psoriasis, an immune-mediated skin disease characterized by red, scaley patches on the epidermis.

CHROMOSOMAL LOCATION

Genetic locus: RNF114 (human) mapping to 20q13.13; Rnf114 (mouse) mapping to 2 H3.

SOURCE

ZNF313 (S-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZNF313 of human origin.

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-86040 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-86040 X, 100 µg/0.1 ml.

APPLICATIONS

ZNF313 (S-19) is recommended for detection of ZNF313 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.

ZNF313 (S-19) is also recommended for detection of ZNF313 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZNF313 siRNA (h): sc-76977, ZNF313 siRNA (m): sc-155684, ZNF313 shRNA Plasmid (h): sc-76977-SH, ZNF313 shRNA Plasmid (m): sc-155684-SH, ZNF313 shRNA (h) Lentiviral Particles: sc-76977-V and ZNF313 shRNA (m) Lentiviral Particles: sc-155684-V.

ZNF313 (S-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

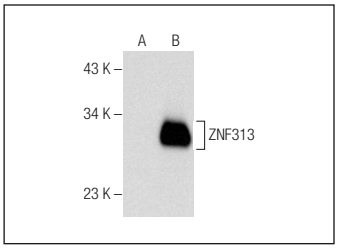
Molecular Weight of ZNF313: 26 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa whole cell lysate: sc-2200 or ZNF313 (m): 293T Lysate: sc-127822.

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). 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.

DATA



ZNF313 (S-19): sc-86040. Western blot analysis of ZNF313 expression in non-transfected: sc-117752 (**A**) and mouse ZNF313 transfected: sc-127822 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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