ZNF313 (A-9): sc-514747



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 two zinc atoms and is involved in the ubiquitination pathway) and is expressed abundantly in mature testis. 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.

REFERENCES

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- Ma, Y.X., et al. 2003. Identification of a novel human zinc finger protein gene ZNF313. Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao 35: 230-237.
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CHROMOSOMAL LOCATION

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

SOURCE

ZNF313 (A-9) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 71-91 within an internal region of ZNF313 of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lgG_{2a}$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-514747 X, 200 $\mu g/0.1$ ml.

Blocking peptide available for competition studies, sc-514747 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

ZNF313 (A-9) is recommended for detection of ZNF313 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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 (A-9) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

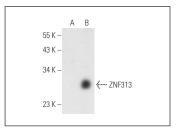
Molecular Weight of ZNF313: 26 kDa.

Positive Controls: ZNF313 (m): 293T Lysate: sc-127822.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGκ BP-HRP: sc-516102 or m-lgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz* Blocking Reagent: sc-516214 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 m-lgGκ BP-FITC: sc-516140 or m-lgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz* Mounting Medium: sc-24941 or UltraCruz* Hard-set Mounting Medium: sc-359850.

DATA



ZNF313 (A-9): sc-514747. 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.