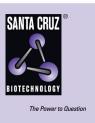
SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF282 (D-13): sc-132168



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. ZNF282 (zinc finger protein 282), also designated HUB1, is a 671 amino acid nuclear protein that contains one KRAB domain and 5 C_2H_2 -type zinc fingers. Expressed ubiquitously, ZNF282 binds to the 5'-TCCACCCC-3' sequence within the U5 repressive element (U5RE) of the human T cell leukemia virus type I (HTLV-1) long terminal repeat. Through its interaction with the U5RE, ZNF282 effectively represses HTLV-1-mediated expression, thereby suppressing viral replication.

REFERENCES

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- Okumura, K., et al. 1997. HUB1, a novel Krüppel type zinc-finger protein, represses the human T cell leukemia virus type I long terminal repeatmediated expression. Nucleic Acids Res. 25: 5025-5032.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF282 (human) mapping to 7q36.1; Zfp282 (mouse) mapping to 6 B2.3.

SOURCE

ZNF282 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF282 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 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132168 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF282 (D-13) is recommended for detection of ZNF282 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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.

Suitable for use as control antibody for ZNF282 siRNA (h): sc-89572, ZNF282 siRNA (m): sc-108045, ZNF282 shRNA Plasmid (h): sc-89572-SH, ZNF282 shRNA Plasmid (m): sc-108045-SH, ZNF282 shRNA (h) Lentiviral Particles: sc-89572-V and ZNF282 shRNA (m) Lentiviral Particles: sc-108045-V.

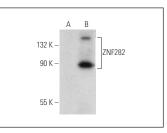
Molecular Weight of ZNF282: 74 kDa.

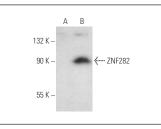
Positive Controls: ZNF282 (m): 293T Lysate: sc-124786.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA





ZNF282 (D-13): sc-132168. Western blot analysis of ZNF282 expression in non-transfected: sc-117752 (A) and mouse ZNF282 transfected: sc-124786 (B) 293T whole cell lysates.

ZNF282 (D-13): sc-132168. Western blot analysis of ZNF282 expression in non-transfected: sc-117752 (**A**) and mouse ZNF282 transfected: sc-124786 (**B**) 293T whole cell lysates.

RESEARCH USE

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