



RNF4 (C-15): sc-21351

BACKGROUND

The RING finger motif is a specialized DNA-binding zinc finger domain found in many transcriptional regulatory proteins. The ring finger protein (RNF) family includes any protein containing the signature RING finger motif. RNF4, also known as SNURF, is abundantly expressed in human testis and mouse embryo. RNF4 contains a C-terminal RING finger motif and binds linear, supercoiled and four-way junction DNA. RNF4 also interacts with nucleosomes and may promote the assembly of nucleoprotein structures. Ectopically expressed, RNF4 inhibits cell proliferation of germ cell tumor-derived cells, but cysteine-directed mutations in the RING finger motif abolished this growth inhibition activity. RNF4 may act as a transcription activator or a repressor. As a transcriptional activator, RNF4 mediates androgen receptor activity. RNF4 also associates with POZ-AT hook-zinc finger protein (PATZ), and the RNF4/PATZ complex acts as a transcriptional repressor. The gene encoding human RNF4 maps to chromosome 4p16.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNF4 (human) mapping to 4p16.3; Rnf4 (mouse) mapping to 5 B1.

SOURCE

RNF4 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RNF4 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-21351 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-21351 X, 200 µg/0.1 ml.

APPLICATIONS

RNF4 (C-15) is recommended for detection of RNF4 of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for RNF4 siRNA (h): sc-38236, RNF4 shRNA Plasmid (h): sc-38236-SH and RNF4 shRNA (h) Lentiviral Particles: sc-38236-V.

RNF4 (C-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RNF4: 35 kDa.

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.

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.