SANTA CRUZ BIOTECHNOLOGY, INC.

RNF6 (I-14): sc-133353

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The Power to Question

BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RNF6 [ring finger protein (C3H2C3 type) 6], whose alternative names include RING-H2 protein, RING finger protein 6 or DKFZp686P0776, is a 685 amino acid protein that is expressed at low levels in testis, ovary, spleen, prostate and peripheral blood. RNF6 has been implied to be involved in tumor suppression as mutations and deletions of RNF6 have been identified in esophageal squamous cell carcinoma (ESCC). RNF6 regulates local growth cone actin dynamics and the cellular concentration of LIMK-1. The gene encoding RNF6 maps to human chromosome 13q12.13 and gives rise to a PLP splice variant that is highly expressed in adult testis.

CHROMOSOMAL LOCATION

Genetic locus: RNF6 (human) mapping to 13q12.13; Rnf6 (mouse) mapping to 5 G3.

SOURCE

RNF6 (I-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RNF6 of human origin.

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-133353 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-133353 X, 200 µg/0.1 ml.

RESEARCH USE

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

APPLICATIONS

RNF6 (I-14) is recommended for detection of RNF6 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 RNF family members.

Suitable for use as control antibody for RNF6 siRNA (h): sc-106519, RNF6 siRNA (m): sc-153053, RNF6 shRNA Plasmid (h): sc-106519-SH, RNF6 shRNA Plasmid (m): sc-153053-SH, RNF6 shRNA (h) Lentiviral Particles: sc-106519-V and RNF6 shRNA (m) Lentiviral Particles: sc-153053-V.

RNF6 (I-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

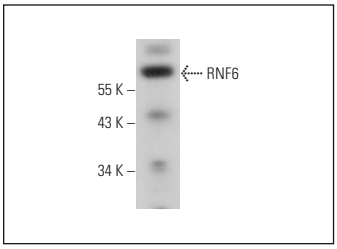
Molecular Weight of RNF6: 78 kDa.

Positive Controls: F9 cell lysate: sc-2245.

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



RNF6 (I-14): sc-133353. Western blot analysis of RNF6 expression in F9 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.

MONOS Satisfaction Guaranteed

Try **RNF6 (3B1): sc-517144**, our highly recommended monoclonal alternative to RNF6 (I-14).