SANTA CRUZ BIOTECHNOLOGY, INC.

RBCK1 (L-14): sc-49717

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The RING finger motif is a specialized DNA-binding zinc finger domain found in many transcriptional regulatory proteins. RBCC protein interacting with PKC 1 (RBCK1), a member of the RING-IBR protein family, interacts with β-I-type (PRKCB1) and Z-type protein kinase C (PRKCZ) as well as UBE2L3, and has a new type of RING-B-box-coiled-coil (RBCC) region. RBCK1 can form homodimers *in vitro* and is a transcription factor with both transcriptional and DNA-binding activities that are unlike other RBCC family proteins. RBCK1 shuttles between the cytoplasm and nucleus and possesses nuclear export and localization signals within its amino acid sequence. It may function as an E3 ubiquitin-protein ligase, or as a part of the E3 complex, which accepts ubiquitin from E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers ubiquitin to substrates.

CHROMOSOMAL LOCATION

Genetic locus: RBCK1 (human) mapping to 20p13; Rbck1 (mouse) mapping to 2 G3.

SOURCE

RBCK1 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RBCK1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-49717 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-49717 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

RBCK1 (L-14) is recommended for detection of RBCK1 (all isoforms) of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RBCK1 (L-14) is also recommended for detection of RBCK1 (all isoforms) in additional species, including canine and bovine.

Suitable for use as control antibody for RBCK1 siRNA (h): sc-61446, RBCK1 siRNA (m): sc-61447, RBCK1 shRNA Plasmid (h): sc-61446-SH, RBCK1 shRNA Plasmid (m): sc-61447-SH, RBCK1 shRNA (h) Lentiviral Particles: sc-61446-V and RBCK1 shRNA (m) Lentiviral Particles: sc-61447-V.

RBCK1 (L-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

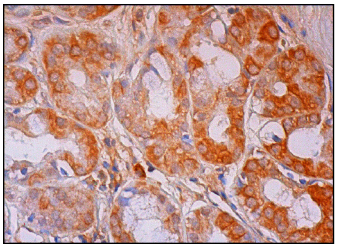
Molecular Weight of RBCK1: 56 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



RBCK1 (L-14): sc-49717. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic staining of glandular cells.

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 **RBCK1 (E-2): sc-365523** or **RBCK1 (H-1): sc-393754**, our highly recommended monoclonal alternatives to RBCK1 (L-14).