

RCBTB1 (F-14): sc-84585

BACKGROUND

The BTB (broad-complex, tramtrack and bric a brac) domain, also known as the POZ (poxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or C₂H₂-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. RCBTB1 (regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1), also known as GLP, CLLD7, CLLL7 or E4.5, is a 531 amino acid protein that localizes to the nucleus and contains 2 BTB (POZ) domains and 6 RCC1 repeats. Expressed ubiquitously, RCBTB1 is thought to be involved in cell cycle regulation, specifically via chromatin remodeling. The gene encoding RCBTB1 maps to a region on human chromosome 13 that is frequently deleted in B-cell chronic lymphocytic leukemia, suggesting a possible role for RCBTB1 in tumor suppression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RCBTB1 (human) mapping to 13q14.2; Rcbtb1 (mouse) mapping to 14 C3.

SOURCE

RCBTB1 (F-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RCBTB1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84585 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RCBTB1 (F-14) is recommended for detection of RCBTB1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RCBTB1 (F-14) is also recommended for detection of RCBTB1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for RCBTB1 siRNA (h): sc-76375, RCBTB1 siRNA (m): sc-152769, RCBTB1 shRNA Plasmid (h): sc-76375-SH, RCBTB1 shRNA Plasmid (m): sc-152769-SH, RCBTB1 shRNA (h) Lentiviral Particles: sc-76375-V and RCBTB1 shRNA (m) Lentiviral Particles: sc-152769-V.

Molecular Weight of RCBTB1: 58 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.