SANTA CRUZ BIOTECHNOLOGY, INC.

TBCK (L-14): sc-165018

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The Power to Question

BACKGROUND

TBCK (TBC domain-containing protein kinase-like protein) also known as TBCKL or MGC16169 in human and A630047E20Rik in mice, is an 893 amino acid protein belonging to the protein kinase superfamily. TBCK contains one protein kinase domain, a Rab-GAP TBC domain and one rhodanese domain. Four TBCK isoforms are produced by alternative splicing events, and the gene encoding TBCK maps to human chromosome 4q24. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TBCK (human) mapping to 4q24; Tbck (mouse) mapping to 3 G3.

SOURCE

TBCK (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TBCK 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-165018 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBCK (L-14) is recommended for detection of TBCK 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).

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

Suitable for use as control antibody for TBCK siRNA (h): sc-88942, TBCK siRNA (m): sc-140667, TBCK shRNA Plasmid (h): sc-88942-SH, TBCK shRNA Plasmid (m): sc-140667-SH, TBCK shRNA (h) Lentiviral Particles: sc-88942-V and TBCK shRNA (m) Lentiviral Particles: sc-140667-V.

Molecular Weight of TBCK: 101 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.

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.