

RCC2 (h): 293T Lysate: sc-116533

BACKGROUND

RCC2 (regulator of chromosome condensation 2), also known as KIAA1470 or TD60, is a 522 amino acid protein that contains 7 RCC1 repeats and is expressed in a variety of mammalian tissues. Localized to the nucleus, as well as to centromeres and the midzone of the mitotic spindle in a cell-cycle dependent manner, RCC2 binds to Rac 1 and is required for the completion of mitosis and cytokinesis, possibly functioning as a guanine nucleotide exchange factor for Rac 1. RCC2 is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR. The gene encoding RCC2 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: RCC2 (human) mapping to 1p36.13.

PRODUCT

RCC2 (h): 293T Lysate represents a lysate of human RCC2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

RCC2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RCC2 antibodies. Recommended use: 10-20 µl per lane.

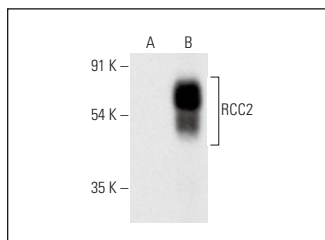
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RCC2 (G-5): sc-514340 is recommended as a positive control antibody for Western Blot analysis of enhanced human RCC2 expression in RCC2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



RCC2 (G-5): sc-514340. Western blot analysis of RCC2 expression in non-transfected: sc-117752 (A) and human RCC2 transfected: sc-116533 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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