

RCC2 (T-20): sc-68776

BACKGROUND

RCC2 (regulator of chromosome condensation 2), also known as KIAA1470 or TD60, is a 522 amino acid protein that contains seven 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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CHROMOSOMAL LOCATION

Genetic locus: RCC2 (human) mapping to 1p36.13; Rcc2 (mouse) mapping to 4 D3.

SOURCE

RCC2 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RCC2 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-68776 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RCC2 (T-20) is recommended for detection of RCC2 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).

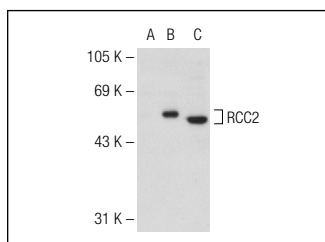
RCC2 (T-20) is also recommended for detection of RCC2 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for RCC2 siRNA (h): sc-62932, RCC2 siRNA (m): sc-62933, RCC2 shRNA Plasmid (h): sc-62932-SH, RCC2 shRNA Plasmid (m): sc-62933-SH, RCC2 shRNA (h) Lentiviral Particles: sc-62932-V and RCC2 shRNA (m) Lentiviral Particles: sc-62933-V.

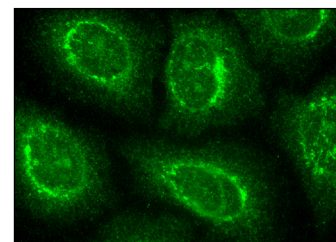
Molecular Weight of RCC2: 60 kDa.

Positive Controls: RCC2 (h): 293T Lysate: sc-116533 or Jurkat nuclear extract: sc-2132.

DATA



RCC2 (T-20): sc-68776. Western blot analysis of RCC2 expression in non-transfected: sc-117752 (A) and human RCC2 transfected: sc-116533 (B) 293T whole cell lysates and Jurkat nuclear extract (C).



RCC2 (T-20): sc-68776. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

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.



Try **RCC2 (G-5): sc-514340**, our highly recommended monoclonal alternative to RCC2 (T-20).