

RCL (E-15): sc-169122

BACKGROUND

RCL is a 174 amino acid protein that belongs to the deoxyribonucleoside 5'-monophosphate N-glycosidase family. It is suggested that the RCL protein plays a role during cellular proliferation and c-Myc-mediated transformation. RCL is expressed at high levels in heart, kidney, liver, skeletal muscle and spleen, low levels in brain, colon, lung, peripheral blood leukocytes, placenta, small intestine and thymus, and overexpressed in a significant proportion of breast cancers. Localizing to nucleus and cytoplasm, expression of RCL is induced by ER81. The RCL gene is conserved in chimpanzee, dog, mouse, rat and zebrafish, and maps to human chromosome 6p21.1. Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatibility complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C6orf108 (human) mapping to 6p21.1; BC048355 (mouse) mapping to 17 C.

SOURCE

RCL (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RCL of human origin.

RESEARCH USE

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

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-169122 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RCL (E-15) is recommended for detection of RCL 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).

RCL (E-15) is also recommended for detection of RCL in additional species, including equine, canine and porcine.

Suitable for use as control antibody for RCL siRNA (h): sc-95242, RCL siRNA (m): sc-152773, RCL shRNA Plasmid (h): sc-95242-SH, RCL shRNA Plasmid (m): sc-152773-SH, RCL shRNA (h) Lentiviral Particles: sc-95242-V and RCL shRNA (m) Lentiviral Particles: sc-152773-V.

Molecular Weight of RCL: 19 kDa.

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.

PROTOCOLS

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