RCL (C-8): sc-365682

**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, canine, 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**


**CHROMOSOMAL LOCATION**


**SOURCE**

RCL (C-8) is a mouse monoclonal antibody raised against amino acids 1-174 representing full length RCL of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RCL (C-8) is available conjugated to agarose (sc-365682 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365682 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycoerythrin (sc-365682 PE), fluorescein (sc-365682 FITC), Alexa Fluor® 488 (sc-365682 AF488), Alexa Fluor® 546 (sc-365682 AF546), Alexa Fluor® 594 (sc-365682 AF594) or Alexa Fluor® 647 (sc-365682 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-365682 AF680) or Alexa Fluor® 790 (sc-365682 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

RCL (C-8) is recommended for detection of RCL of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RCL siRNA (h): sc-95242, RCL shRNA Plasmid (h): sc-95242-5H and RCL shRNA (h) Lentiviral Particles: sc-95242-V.

Molecular Weight of RCL: 19 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, Jurkat nuclear extract: sc-2132 or MCF7 nuclear extract: sc-2149.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG HRP-BP: sc-516140 or m-IgG HRP-BP: PE: sc-516141 (dilution range: 1:100-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

![RCL Western Blot](Image)

**SELECT PRODUCT CITATIONS**


**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.

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