

### RCL Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5930a

### Specification

# **RCL Antibody (N-term) - Product Information**

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW Antigen Region FC, WB,E <u>O43598</u> <u>NP\_006434.1</u>, <u>NP\_954653.1</u> Human Rabbit Polyclonal Rabbit IgG 19108 20-48

## **RCL Antibody (N-term) - Additional Information**

Gene ID 10591

Other Names 2'-deoxynucleoside 5'-phosphate N-hydrolase 1 {ECO:0000255|HAMAP-Rule:MF\_03036}, 322-{ECO:0000255|HAMAP-Rule:MF\_03036, ECO:0000269|PubMed:24260472, ECO:0000269|PubMed:25108359}, c-Myc-responsive protein RCL {ECO:0000255|HAMAP-Rule:MF\_03036}, DNPH1 {ECO:0000255|HAMAP-Rule:MF\_03036}

#### Target/Specificity

This RCL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-48 amino acids from the N-terminal region of human RCL.

Dilution  $FC \sim 1:10 \sim 50$   $WB \sim 1:1000$   $E \sim Use$  at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

RCL Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# **RCL Antibody (N-term) - Protein Information**



## Name DNPH1 (HGNC:21218)

**Function** Part of a nucleotide salvage pathway that eliminates epigenetically modified 5-hydroxymethyl-dCMP (hmdCMP) in a two-step process entailing deamination to cytotoxic 5-hydroxymethyl-dUMP (hmdUMP), followed by its hydrolysis into 5-hydroxymethyluracil (hmU) and 2-deoxy-D-ribose 5-phosphate (deoxyribosephosphate) (PubMed:<u>33833118</u>). Catalyzes the second step in that pathway, the hydrolysis of the N-glycosidic bond in hmdUMP, degrading this cytotoxic nucleotide to avoid its genomic integration (PubMed:<u>33833118</u>).

Cellular Location Cytoplasm. Nucleus

#### **Tissue Location**

Expressed at low levels in brain, colon, lung, peripheral blood leukocytes, placenta, small intestine, and thymus Expressed at high levels in heart, kidney, liver, skeletal muscle and spleen. Overexpressed in a significant proportion of breast cancers

## **RCL Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# RCL Antibody (N-term) - Images



RCL Antibody (N-term) (Cat. #AP5930a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the RCL antibody detected the RCL protein (arrow).





RCL Antibody (N-term) (Cat. #AP5930a) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.