

RCL Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5930a

Specification

RCL Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O43598](#)
Other Accession [NP_006434.1](#), [NP_954653.1](#)

RCL Antibody (N-term) Blocking peptide - 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}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RCL Antibody (N-term) Blocking peptide - 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:33833118). 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:33833118).

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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RCL Antibody (N-term) Blocking peptide - Images