

**CCRN4L Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6611b****Specification**

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**CCRN4L Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UK39](#)**CCRN4L Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 25819**Other Names**

Nocturnin, Carbon catabolite repression 4-like protein, Circadian deadenylase NOC, CCRN4L, CCR4, NOC

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6611b](/products/AP6611b) was selected from the C-term region of human CCRN4L. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**CCRN4L Antibody (C-term) Blocking Peptide - Protein Information****Name** NOCT ([HGNC:14254](#))**Synonyms** CCR4, CCRN4L, NOC**Function**

Phosphatase which catalyzes the conversion of NADP(+) to NAD(+) and of NADPH to NADH (PubMed: [31147539](http://www.uniprot.org/citations/31147539)). Shows a small preference for NADPH over NADP(+) (PubMed: [31147539](http://www.uniprot.org/citations/31147539)). Represses translation and promotes degradation of target mRNA molecules (PubMed: [29860338](http://www.uniprot.org/citations/29860338)). Plays an important role in post-transcriptional regulation of metabolic genes under circadian control (By similarity). Exerts a rhythmic post-transcriptional control of genes necessary for metabolic functions including nutrient absorption, glucose/insulin sensitivity, lipid metabolism, adipogenesis,

inflammation and osteogenesis (By similarity). Plays an important role in favoring adipogenesis over osteoblastogenesis and acts as a key regulator of the adipogenesis/osteogenesis balance (By similarity). Promotes adipogenesis by facilitating PPARG nuclear translocation which activates its transcriptional activity (By similarity). Regulates circadian expression of NOS2 in the liver and negatively regulates the circadian expression of IGF1 in the bone (By similarity). Critical for proper development of early embryos (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:O35710}. Nucleus {ECO:0000250|UniProtKB:O35710}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:O35710}. Mitochondrion

**Tissue Location**

Adipose tissue. Expression is higher in subcutaneous adipose tissue as compared to visceral adipose tissue

**CCRN4L Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CCRN4L Antibody (C-term) Blocking Peptide - Images****CCRN4L Antibody (C-term) Blocking Peptide - Background**

CCRN4L is highly similar to Nocturnin, identified as a circadian clock regulated gene in *Xenopus laevis*. This protein and Nocturnin protein share similarity with the C-terminal domain of a yeast transcription factor, carbon catabolite repression 4 (CCR4).

**CCRN4L Antibody (C-term) Blocking Peptide - References**

Nakamura, E.S., Clin. Exp. Metastasis 23 (1), 9-18 (2006)