10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Nocturnin Antibody
Catalog # AP53828

Specification

Anti-Nocturnin Antibody - Product Information

Application	**WB**
Primary Accession	Q9UK39
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**48196**

Anti-Nocturnin Antibody - Additional Information

Gene ID 25819

Other Names
CCR4; NOC; Nocturnin; Carbon catabolite repression 4-like protein; Circadian deadenylase NOC

Target/Specificity
Recognizes endogenous levels of Nocturnin protein.

Dilution
WB~~1/500 - 1/1000

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Nocturnin Antibody - 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). Shows a small preference for NADPH over NADP(+) (PubMed:31147539). Represses translation and promotes degradation of target mRNA molecules (PubMed: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

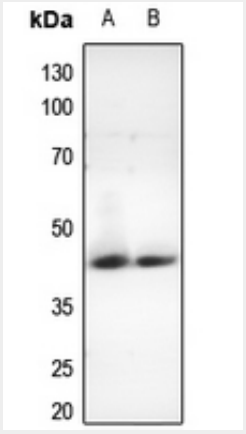
Tissue Location
Adipose tissue. Expression is higher in subcutaneous adipose tissue as compared to visceral adipose tissue

Anti-Nocturnin Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Nocturnin Antibody - Images



Western blot analysis of Nocturnin expression in mouse muscle (A), rat muscle (B) whole cell lysates.

Anti-Nocturnin Antibody - Background

Rabbit polyclonal antibody to Nocturnin