

Nocturnin Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54504**Specification**

Nocturnin Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	O9UK39
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48196

Nocturnin Polyclonal Antibody - Additional Information**Gene ID** 25819**Other Names**

Nocturnin {ECO:0000312|HGNC:HGNC:14254}, 3.1.3.-, Carbon catabolite repression 4-like protein, NOCT (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=14254 target="_blank">HGNC:14254), CCR4, CCRN4L, NOC

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Nocturnin Polyclonal 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](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

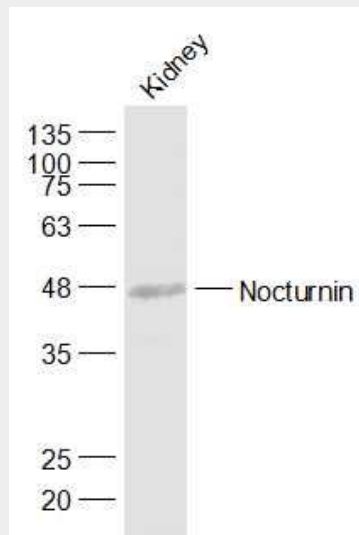
Adipose tissue. Expression is higher in subcutaneous adipose tissue as compared to visceral adipose tissue

Nocturnin Polyclonal 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 Cytometry](#)
- [Cell Culture](#)

Nocturnin Polyclonal Antibody - Images



Sample:

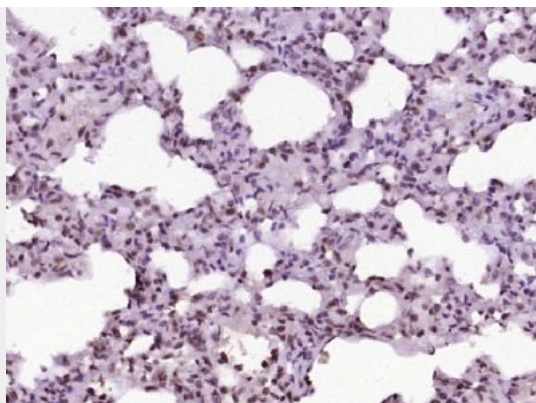
Kidney (Mouse) Lysate at 40 ug

Primary: Anti-Nocturnin (bs-11444R) at 1/1000 dilution

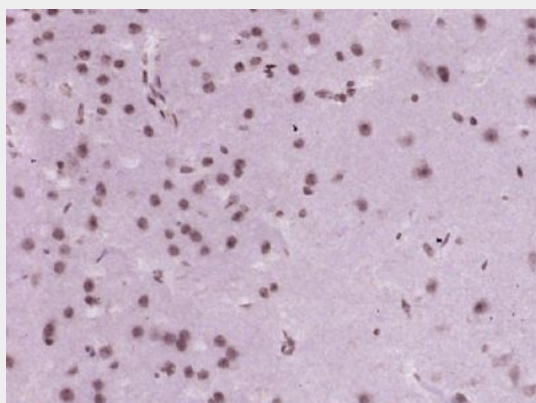
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (Rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nocturnin) Polyclonal Antibody, Unconjugated (bs-11444R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nocturnin) Polyclonal Antibody, Unconjugated (bs-11444R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.