Nocturnin (F-4): sc-376584

**BACKGROUND**

Nocturnin, also known as CCRN4L or NOC, is a 431 amino acid circadian deadenylase protein that is expressed in a broad range of tissues with greatest abundance in the liver, kidney and testis. Nocturnin plays a role in circadian regulation as well as diet-induced obesity. The mRNA abundance of Nocturnin exhibits circadian rhythmicity, peaking after dusk in photoreceptors, spleen, heart, kidney and liver. Nocturnin is thought to be responsible for turning off genes that are involved in circadian regulation. In *Xenopus* retinal photoreceptor cells, the rhythmic regulation of Nocturnin is thought to be controlled by phosphorylated CREB. Mice lacking Nocturnin remain lean on high fat diets with a reduction in visceral fat, which suggests that this protein may also be responsible for lipid metabolism and fat storage.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CCRN4L (human) mapping to 4q31.1; Ccrn4l (mouse) mapping to 3 C.

**SOURCE**

Nocturnin (F-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 185-219 within an internal region of Nocturnin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG3 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Nocturnin (F-4) is recommended for detection of Nocturnin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Nocturnin (F-4) is also recommended for detection of Nocturnin in additional species, including equine, canine and bovine.

Molecular Weight of Nocturnin: 48 kDa.

**CHROMOSOMAL LOCATION**

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Nocturnin (F-4): sc-376584. Western blot analysis of Nocturnin expression in Y79 (A) and ARPE-19 (B) whole cell lysates.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.