

For Research Use Only

# PER2 Polyclonal antibody

Catalog Number: 20359-1-AP **16 Publications**



## Basic Information

**Catalog Number:**

20359-1-AP

**Size:**

367 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_022817

**GeneID (NCBI):**

8864

**UNIPROT ID:**

O15055

**Full Name:**

period homolog 2 (Drosophila)

**Calculated MW:**

137 kDa

**Observed MW:**

136 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

IF, IHC, IP, WB

**Species Specificity:**

human

**Cited Species:**

goat, human, mouse

**Positive Controls:**

WB : BxPC-3 cells, Y79 cells, K-562 cells, L02 cells

IP : HEK-293 cells,

## Background Information

PER2, also named as KIAA0347, is a component of the circadian clock mechanism which is essential for generating circadian rhythms. PER2 is a negative element in the circadian transcriptional loop. PER2 influences clock function by interacting with other circadian regulatory proteins and transporting them to the nucleus. It negatively regulates CLOCK|NPAS2-BMAL1|BMAL2-induced transactivation. Defects in PER2 are a cause of familial advanced sleep-phase syndrome (FASPS) which is characterized by very early sleep onset and offset. The antibody is specific to PER2. It can recognize isoform1 and isoform2 of PER2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jian Gao	33010914	J Dairy Sci	WB, IF
Zandra E Walton	29861175	Cell	WB
An-yuan Cheng	25560491	Tumour Biol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

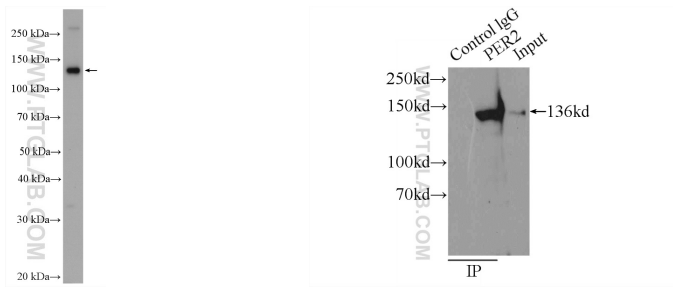
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



BxPC-3 cells were subjected to SDS PAGE followed by western blot with 20359-1-AP (PER2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

IP result of anti-PER2 (IP:20359-1-AP, 3ug; Detection:20359-1-AP 1:300) with HEK-293 cells lysate 1000ug.