

# 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:

WB, IP, IF, IHC

### Species Specificity:

human

### Cited Species:

goat, human, mouse

### Positive Controls:

WB: BxPC-3 cells, Y79 cells, K-562 cells, LO2 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

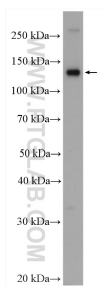
For technical support and original validation data for this product please contact:

T: 4006900926

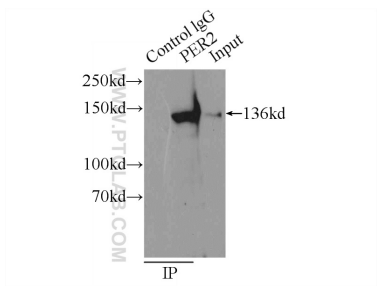
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## 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.