

For Research Use Only

PER2 Polyclonal antibody

Catalog Number: 20359-1-AP

16 Publications



Basic Information

Catalog Number:

20359-1-AP

Size:

150ul, Concentration: 367 µg/ml by Bradford method using BSA as the standard;

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:

WB, IP, 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, 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

*** 20ul sizes contain 0.1% BSA

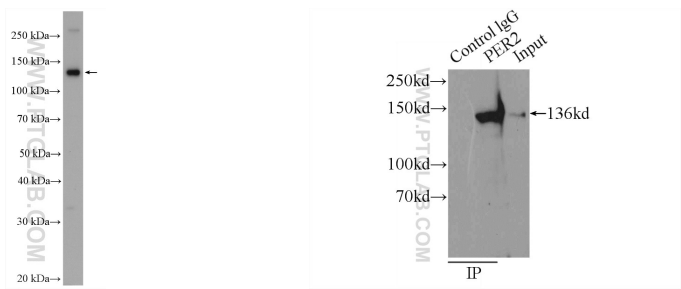
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.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.