

For Research Use Only

PER2 Polyclonal antibody

Catalog Number: 29954-1-AP



Basic Information

Catalog Number:

29954-1-AP

Size:

750 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31471

GenBank Accession Number:

NM_022817

GeneID (NCBI):

8864

UNIPROT ID:

O15055

Full Name:

period homolog 2 (Drosophila)

Calculated MW:

137KD

Observed MW:

45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human

Positive Controls:

WB : BxPC-3 cells, HeLa cells

IF/ICC : MDA-MB-231 cells,

Background Information

PER2, also named as KIAA0347, is a component of the circadian clock mechanism which is essential for generating circadian rhythms. Defects in PER2 are a cause of familial advanced sleep-phase syndrome (FASPS) which is characterized by very early sleep onset and offset. There are two isoforms of PER2: isoform 1 has an expected molecular size of about 140 kDa, while isoform 2, known as PER2S (a second splicing variant of the human PER2 gene), has a molecular weight of about 45 kDa (PMID:26347774). 29954-1-AP detected molecular weight of 45 kDa.

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:

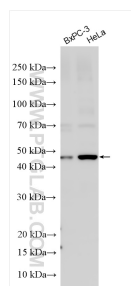
T: 4006900926

E: Proteintech-CN@ptglab.com

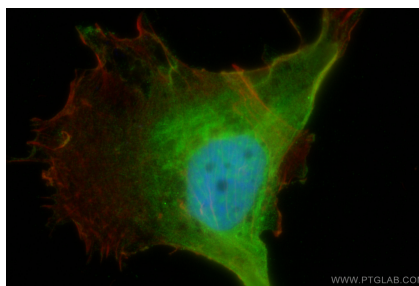
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29954-1-AP (PER2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MDA-MB-231 cells using PER2 antibody (29954-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).