

PER1 Polyclonal Antibody

Catalog number: 13463-1-AP

Size: 43 µg/150 µl

Source: Rabbit

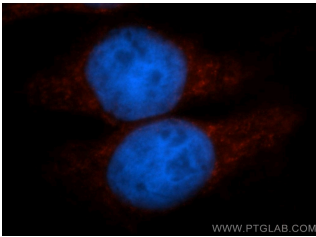
Isotype: IgG

Synonyms:

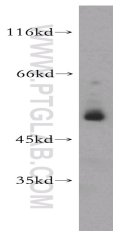
PER1; hPER, hPER1, KIAA0482,

PER, PER1, period homolog 1

(Drosophila), RIGUI



Immunofluorescent analysis of HeLa cells, using PER1 antibody 13463-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



A549 cells were subjected to SDS PAGE followed by western blot with 13463-1-AP (PER1 antibody) at dilution of 1:300

Background

PER1 is a master regulator of circadian rhythm and functions in the nucleus to repress expression of the central circadian clock genes. The periodicity of PER1 abundance, nuclear translocation, and transcriptional repression is regulated by PER1 phosphorylation, ubiquitination, and proteasomal degradation [PMID: 21514639]. It is one component of the circadian clock mechanism which is essential for generating circadian rhythms. It can influence clock function by interacting with other circadian regulatory proteins and transporting them to the nucleus [PMID: 9856465, 20930143].

Applications

Tested applications:	ELISA, WB, IF
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated PER1 MW:	1290aa, 136 kDa
Observed PER1 MW:	50-55kd
Positive WB detected in	A549 cells, human brain tissue, mouse kidney tissue, mouse liver tissue
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4249
GenBank accession number:	BC028207
Gene ID (NCBI):	5187
Full name:	Period homolog 1 (Drosophila)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.