

For Research Use Only

PER1 Recombinant antibody

Catalog Number: 84730-5-RR



Basic Information

Catalog Number: 84730-5-RR	GenBank Accession Number: BC028207	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5187	CloneNo.: 242096E3
Source: Rabbit	UNIPROT ID: O15534	Recommended Dilutions: IF/ICC 1:125-1:500
Isotype: IgG	Full Name: period homolog 1 (Drosophila)	
Immunogen Catalog Number: AG4249	Calculated MW: 1290 aa, 136 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : NIH/3T3 cells,
Species Specificity: human, mouse	

Background Information

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].

Storage

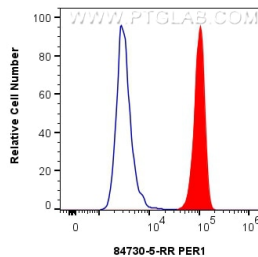
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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
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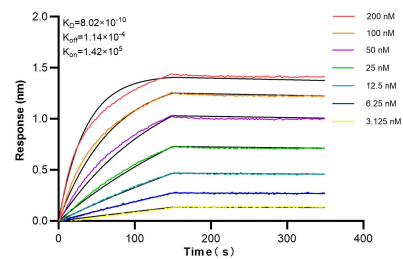
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using PER1 antibody (84730-5-RR, Clone: 242096E3) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).

1x10⁶ A549 cells were intracellularly stained with 0.25 ug PER1 Recombinant antibody (84730-5-RR, Clone:242096E3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 84730-5-RR against Human PER1 were performed. The affinity constant is 0.802 nM.