

For Research Use Only

PER1 Recombinant antibody, PBS Only

Catalog Number: 84730-5-PBS



Basic Information

Catalog Number: 84730-5-PBS	GenBank Accession Number: BC028207	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5187	CloneNo.: 242096E3
Source: Rabbit	UNIPROT ID: O15534	
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), Indirect ELISA

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 -80°C.

Storage Buffer:
PBS Only

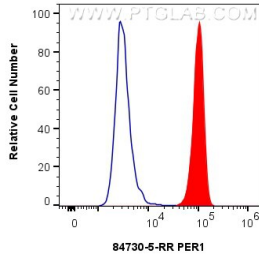
For technical support and original validation data for this product please contact:

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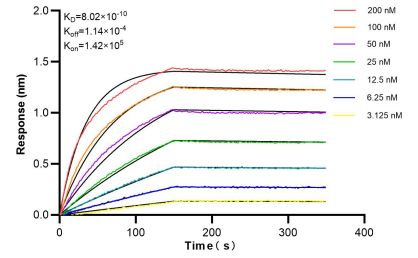
Selected Validation Data



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). This data was developed using the same antibody clone with 84730-5-PBS in a different storage



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). This data was developed using the same antibody clone with 84730-5-PBS in a different storage buffer formulation.



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