

For Research Use Only

# PER1 Recombinant antibody

Catalog Number: 84730-5-RR



## Basic Information

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

## Applications

<b>Tested Applications:</b> IF/ICC, ELISA	<b>Positive Controls:</b> IF/ICC : NIH/3T3 cells,
<b>Species Specificity:</b> 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

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

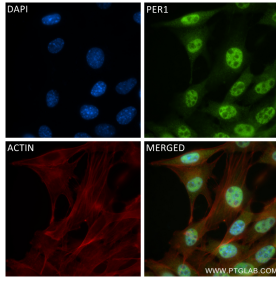
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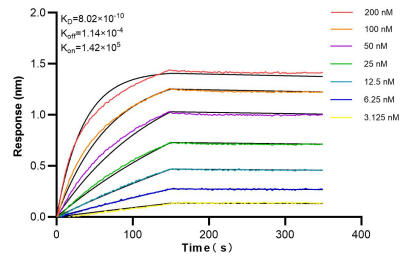
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## Selected Validation Data



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).



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