

For Research Use Only

# PER3 Polyclonal antibody

Catalog Number: 12550-1-AP **5 Publications**



## Basic Information

<b>Catalog Number:</b> 12550-1-AP	<b>GenBank Accession Number:</b> BC026102	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8863	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> period homolog 3 (Drosophila)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1201 aa, 132 kDa	
<b>Immunogen Catalog Number:</b> AG3400	<b>Observed MW:</b> 132 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells,
<b>Cited Applications:</b> WB	<b>IHC :</b> human colon cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IF :</b> HeLa cells,
<b>Cited Species:</b> human, mouse, rat	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The suprachiasmatic nuclei (SCN) of the anterior hypothalamus function as a circadian clock in the mammalian brain, generating circadian rhythms in physiology and behavior. The period homolog genes *Per3* is an important component of the circadian clock system. *PER3* plays a role in cell proliferation, apoptosis, DNA damage response, cell cycle control, and treatment response of chemotherapy agents in cancers.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenwen Luo	27373683	Int J Biochem Cell Biol	WB
Xiaopeng Song	35765090	Arthritis Res Ther	WB
Xiaomeng Shen	30100061	Biochem Biophys Res Commun	WB

## Storage

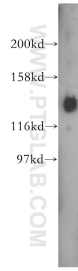
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

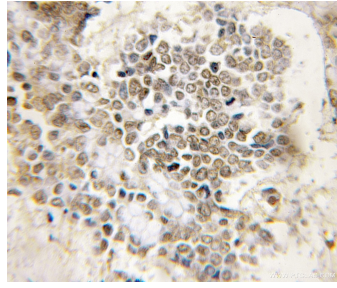
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

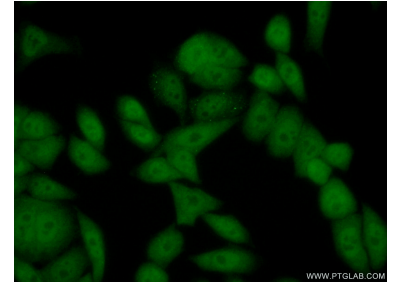
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 12550-1-AP (PER3 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 12550-1-AP (PER3 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 12550-1-AP (PER3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).