

For Research Use Only

# PER2 (isoform 1) Monoclonal antibody



Catalog Number: 67513-1-Ig **8 Publications**

## Basic Information

<b>Catalog Number:</b> 67513-1-Ig	<b>GenBank Accession Number:</b> NM_022817	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8864	<b>CloneNo.:</b> 2E6C3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O15055	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> period homolog 2 (Drosophila)	
<b>Immunogen Catalog Number:</b> AG29489	<b>Calculated MW:</b> 137 kDa	
	<b>Observed MW:</b> 150-160 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, L02 cells, Y79 cells, BxPC-3 cells, K-562 cells, HL-60 cells, THP-1 cells
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse	

## Background Information

PER2, also named as KIAA0347, is a component of the circadian clock mechanism which is essential for generating circadian rhythms. Defects in PER2 are a cause of familial advanced sleep-phase syndrome (FASPS) which is characterized by very early sleep onset and offset. There are two isoforms of PER2: isoform 1 has an expected molecular size of about 140 kDa, and 67513-1-Ig detected molecular weight of 150-160 kDa (PMID:16675517), while isoform 2, known as PER2S (a second splicing variant of the human PER2 gene), has a molecular weight of about 45 kDa (PMID:26347774).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuekai Xiong	36093830	J Cell Sci	WB
Zhaoxia Wang	33244267	Cancer Manag Res	WB
Xiyan Tan	34124276	J Immunol Res	WB

## Storage

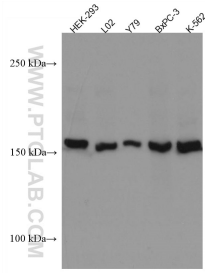
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67513-1-Ig (PER2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.