

For Research Use Only

PER2 (isoform 1) Monoclonal antibody



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

Basic Information

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

Applications

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

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

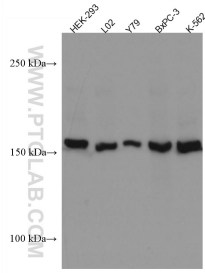
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.