

For Research Use Only

PER2 Polyclonal antibody

Catalog Number: 29954-1-AP



Basic Information

Catalog Number: 29954-1-AP	GenBank Accession Number: NM_022817	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 µg/ml by Nanodrop;	GeneID (NCBI): 8864	Recommended Dilutions: WB 1:1000-1:4000 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: O15055	
Isotype: IgG	Full Name: period homolog 2 (Drosophila)	
Immunogen Catalog Number: AG31471	Calculated MW: 137KD	
	Observed MW: 45 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls: WB : BxPC-3 cells, HeLa cells
Species Specificity: Human	IF : MDA-MB-231 cells,

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, 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). 29954-1-AP detected molecular weight of 45 kDa.

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

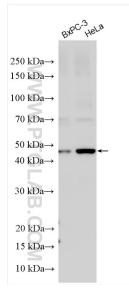
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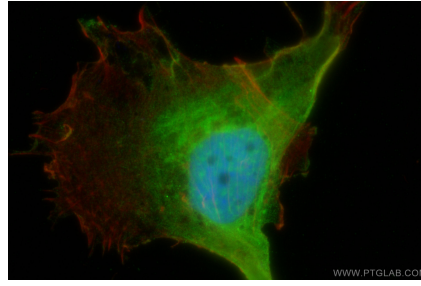
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29954-1-AP (PER2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MDA-MB-231 cells using PER2 antibody (29954-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).