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Datasheet for ABIN7269224

anti-PER2 antibody

4 Images

Overview

Quantity:	100 µL
Target:	PER2
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PER2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP)

Product Details

Purpose:	PER2 Rabbit mAb
Immunogen:	A synthesized peptide derived from human PER2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PER2
Alternative Name:	PER2 (PER2 Products)
Background:	This gene is a member of the Period family of genes and is expressed in a circadian pattern in

Target Details

the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers and have been linked to sleep disorders. [provided by RefSeq, Jan 2014],FASPS, FASPS1,Blood,Blood_Blood Pressure regulation,Cancer,Cardiovascular,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,Neuroscience,Signal Transduction,PER2

Molecular Weight: 137kDa

Gene ID: 8864

UniProt: [O15055](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200,ChIP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

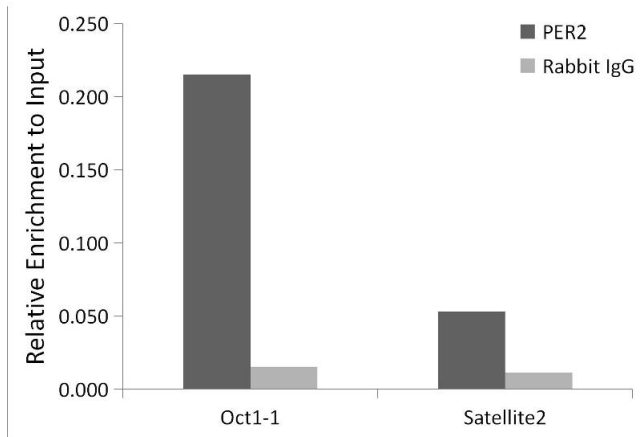
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

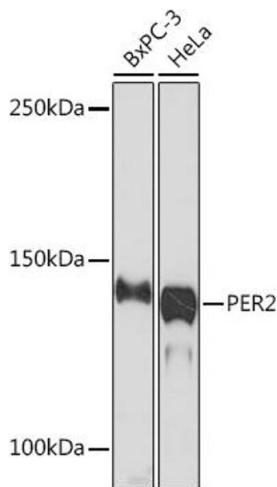
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



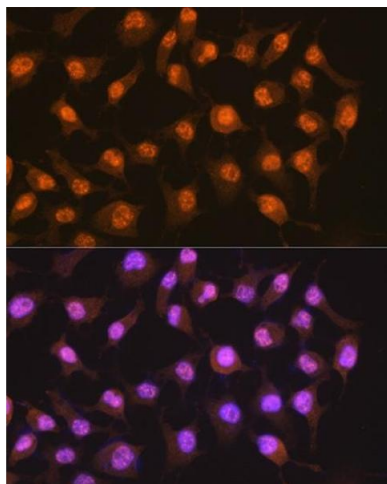
Chromatin Immunoprecipitation

Image 1. Chromatin immunoprecipitation analysis of extracts of MCF7 cells, using PER2 antibody (ABIN7269224) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PER2 Rabbit mAb (ABIN7269224) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 3 min.



Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cells using PER2 Rabbit mAb (ABIN7269224) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7269224.