

# PER2 Rabbit mAb

Catalog No.: A5107 **Recombinant** **4 Publications**

## Basic Information

### Observed MW

140kDa

### Calculated MW

137kDa

### Category

Primary antibody

### Applications

WB,(ELISA),ChIP

### Cross-Reactivity

Human

### CloneNo number

ARC1134

## Background

This gene is a member of the Period family of genes and is expressed in a circadian pattern in 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.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**ChIP** 5µg antibody for 10µg-15µg of Chromatin

## Immunogen Information

### Gene ID

8864

### Swiss Prot

O15055

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human PER2 (O15055).

### Synonyms

FASPS; FASPS1; PER2

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

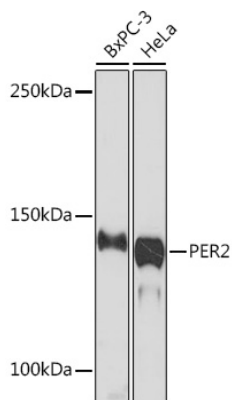
Affinity purification

### Storage

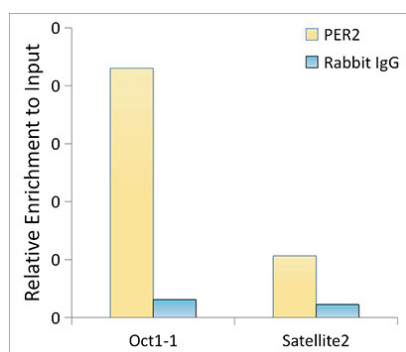
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of various lysates using PER2 Rabbit mAb (A5107) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 3min.



Chromatin immunoprecipitation analysis of extracts of MCF7 cells, using PER2 antibody (A5107) 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.