

## Product datasheet

### Anti-PER3 antibody [EPR13038] ab177482

Recombinant RabMAb

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#### Overview

Product name	Anti-PER3 antibody [EPR13038]
Description	Rabbit monoclonal [EPR13038] to PER3
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> IHC-P
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal heart and HeLa and K562 lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13038
Isotype	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab177482 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 132 kDa (predicted molecular weight: 132 kDa).

### Application notes

Is unsuitable for IHC-P.

## Target

### Function

Component of the circadian clock mechanism which is essential for generating circadian rhythms.  
Can bind heme.

### Sequence similarities

Contains 1 PAC (PAS-associated C-terminal) domain.  
Contains 2 PAS (PER-ARNT-SIM) domains.

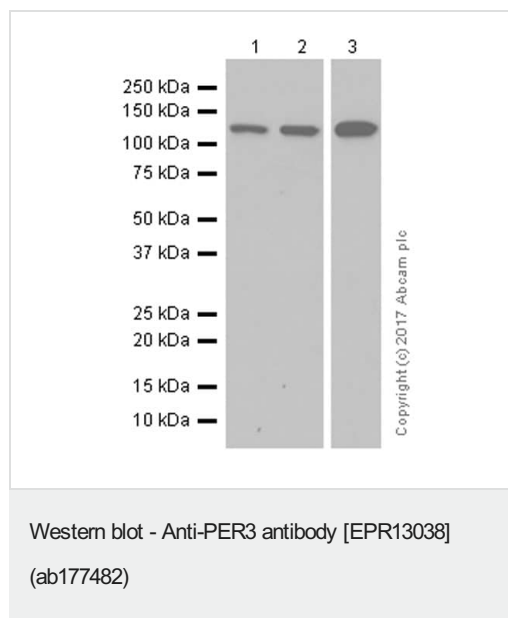
### Post-translational modifications

Phosphorylation appears to require association with PER1 and translocation to the nucleus.  
Ubiquitinated.

### Cellular localization

Cytoplasm. Nucleus. Mainly cytoplasmic. Translocates to the nucleus through binding PER1, PER2, CRY1 or CRY2, but not TIMELESS.

## Images



**All lanes :** Anti-PER3 antibody [EPR13038] (ab177482) at 1/1000 dilution (purified)

**Lane 1 :** K562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

**Lane 2 :** Human fetal heart tissue lysate

**Lane 3 :** Rat heart tissue lysate

Lysates/proteins at 20 µg per lane.

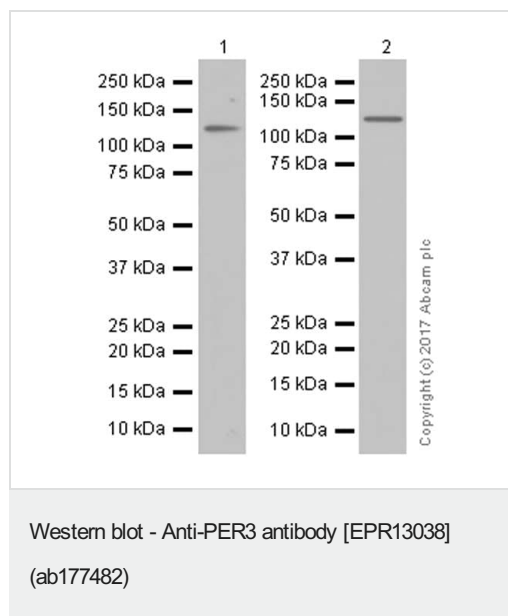
### Secondary

**All lanes :** Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 132 kDa

**Observed band size:** 132 kDa

Blocking and diluting buffer: 5% NFDm/TBST



**All lanes :** Anti-PER3 antibody [EPR13038] (ab177482) at 1/1000 dilution (purified)

**Lane 1 :** Mouse kidney lysates

**Lane 2 :** Mouse heart lysates

Lysates/proteins at 15 µg per lane.

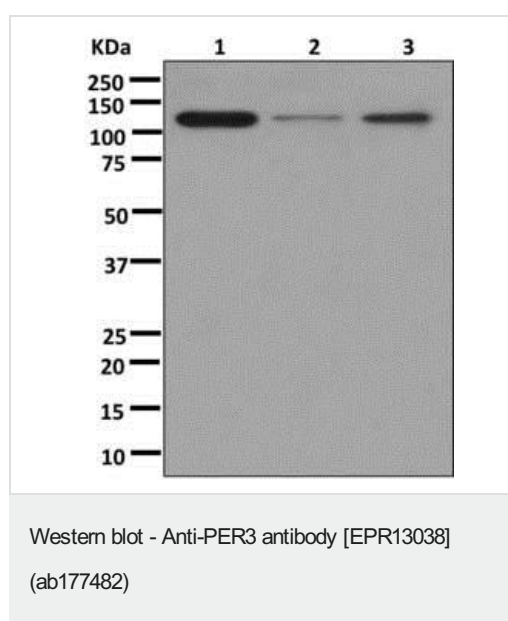
#### Secondary

**All lanes :** Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 132 kDa

**Observed band size:** 132 kDa

Blocking and diluting buffer: 5% NFDM/TBST



**All lanes :** Anti-PER3 antibody [EPR13038] (ab177482) at 1/1000 dilution (unpurified)

**Lane 1 :** Fetal heart lysate

**Lane 2 :** HeLa lysate

**Lane 3 :** K562 lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP labeled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 132 kDa

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-PER3 antibody [EPR13038] (ab177482)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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