

## Anti-PER3 Antibody Picoband™

Catalog Number: A01835-1

### About PER3

The PER3 gene encodes the period circadian protein homolog 3 protein in humans. 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 have been linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-PER3 Antibody Picoband™  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-PER3 Antibody Picoband™ catalog # A01835-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.  |
| Application          | ELISA, WB   |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .  |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host                 | Rabbit  |
| Uniprot ID           | P56645  |

### Technical Details

|                               |   |
|-------------------------------|---|
| Immunogen                     | E. coli-derived human PER3 recombinant protein (Position: Q1085-D1199).                         |
| Predicted Reactive Species    | Human   |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity              | No cross-reactivity with other proteins.  |
| Isotype                       | Rabbit IgG  |
| Form                          | Lyophilized   |
|                               |   |

|                     |   |
|---------------------|---|
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.   |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml</p> <p>Direct ELISA, 0.1-0.5ug/ml</p> |

## Anti-PER3 Antibody Picoband™ (A01835-1) Images

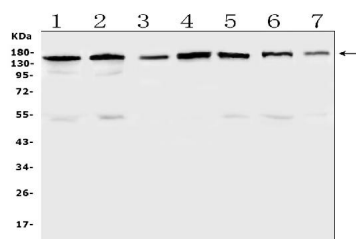


Figure 1. Western blot analysis of PER3 using anti-PER3 antibody (A01835-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human Hela cell lysate,

Lane 2: human MCF-7 cell lysate,

Lane 3: human A549 cell lysate,

Lane 4: human HepG2 cell lysate,

Lane 5: human COLO-320 cell lysate,

Lane 6: rat heart tissue lysate,

Lane 7: mouse skeletal muscle tissue lysate.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PER3 antigen affinity purified polyclonal antibody (Catalog # A01835-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PER3 at approximately 160KD. The expected band size for PER3 is at 132KD.

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