Product datasheet

Anti-PER3 Antibody

Catalog Number: *A01835-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-PER3 Antibody
Gene Name	PER3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human PER3 recombinant protein (Position: Q1085-D1199).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	132 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

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.

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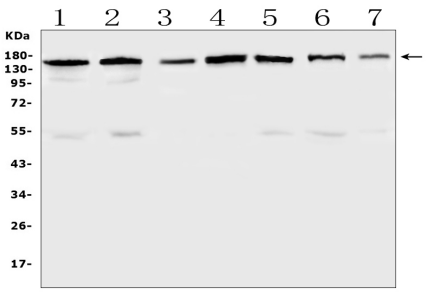
Selected Validation Data



Western blot analysis of PER3 using anti-PER3 antibody (A01835-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: human HepG2 whole cell lysates,
Lane 5: human COLO-320 whole cell lysates,
Lane 6: rat heart tissue lysates,
Lane 7: mouse skeletal muscle tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PER3 antigen affinity purified polyclonal antibody (A01835-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PER3 at approximately 132 kDa. The expected band size for PER3 is at 132 kDa .