

Anti-PER1 Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Human, Mouse (predicted: Rat, Dog, Pig, Cow, Horse, Rabbit)
Molecular Weight: Theoretical: 136 kDa. Actual: 142 kDa.
Purification: Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PER1 protein) Polyclonal Antibody, Unconjugated (TMAB-01368) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:

2. Sample:

Lane 1: Human HeLa cell lysates

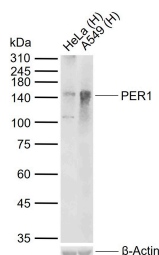
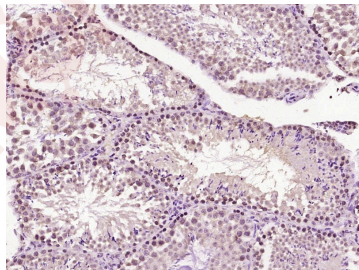
Lane 2: Human A549 cell lysates

Primary: Anti-PER1 (TMAB-01368) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 136 kDa

Observed band size: 142 kDa



Application: IF, IHC-Fr, IHC-P, WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

A DRUG SCREENING EXPERT

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PER1 protein

Antigen Species: Human

Gene ID: 5187

Uniprot ID: O15534

Synonyms: hPER1;PER1;hPER 1;Circadian pacemaker protein Rigiui;Period homolog 1;hPER;RIGUI;Circadian clock protein PERIOD1;PER 1;Period circadian protein homolog 1;Period1;Circadian clock protein PERIOD 1;KIAA0482;Period drosophila homolog of;PER;Period 1;MGC88021

Biology Area: HLH,Transcription Factors,Circadian Rhythm

Research Background

In mammals, several genes that encode members of the basic helix-loop helix (bHLH) PAS (PER-ARNT-SIM) transcription factor family have been shown to play a significant role in regulating circadian oscillations. Transactivation of CLOCK-induced genes is mediated via an E box enhancer (CACGTG) found upstream of target genes. CLOCK-ARNT 3 heterodimers bind to E box regulatory elements and stimulate gene transcription. CLOCK has been shown to transactivate the mammalian homolog of Drosophila PER. PER, in concert with the product of the mammalian timeless gene (TIM), negatively regulates its own transcription by blocking the activity of the CLOCK-BMAL 1 transactivation complex.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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