

## Recombinant Human PER1 cell lysate

**Cat. No.** PER1-1332HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>    | <p>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. Circadian expression in the suprachiasmatic nucleus continues in constant darkness, and a shift in the light/dark cycle evokes a proportional shift of gene expression in the suprachiasmatic nucleus. The specific function of this gene is not yet known. Alternative splicing has been observed in this gene; however, these variants have not been fully described.</p> |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### GENE INFORMATION

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| <b>Gene Name</b>       | PER1 period homolog 1 (Drosophila) [ Homo sapiens ] |
| <b>Official Symbol</b> | PER1                                                |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | PER1; period homolog 1 (Drosophila); PER, period (Drosophila) homolog 1; period circadian protein homolog 1; RIGUI; hPER1; Period, drosophila, homolog of; circadian clock protein PERIOD 1; circadian pacemaker protein RIGUI; PER; hPER; MGC88021;                                                                                                                                                                                |
| <b>Gene ID</b>             | 5187                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_002616                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_002607                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 602260                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | O15534                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 17p13.1                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; |
| <b>Function</b>            | E-box binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; protein binding transcription factor activity; signal transducer activity;                                                                                                                                                                                                                                                            |