

## Rabbit Anti-ARNTL Polyclonal Antibody

CPB-1213RH Rabbit(ARNTL)

Lot. No. (See product label)

### PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Rabbit Anti-ARNTL Polyclonal Antibody                                                                                                                                                                             |
| <b>Antigen Description</b> | ARNTL-CLOCK heterodimers activate E-box element (3'-CACGTG-5') transcription of a number of proteins of the circadian clock. This transcription is inhibited in a feedback loop by PER, and also by CRY proteins. |
| <b>specificity</b>         | The antibody detects endogenous level of total ARNTL protein.                                                                                                                                                     |
| <b>Target</b>              | ARNTL                                                                                                                                                                                                             |
| <b>Immunogen</b>           | Peptide sequence around aa. 569~573 (S-S-S-I-L) derived from Human ARNTL.                                                                                                                                         |
| <b>Host</b>                | Rabbit                                                                                                                                                                                                            |
| <b>Species</b>             | Human                                                                                                                                                                                                             |
| <b>Cross Reactivity</b>    | Human; Mouse; Rat                                                                                                                                                                                                 |
| <b>conjugation</b>         | N/A                                                                                                                                                                                                               |
| <b>Applications</b>        | WB                                                                                                                                                                                                                |

### PACKAGING

|                |                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Format</b>  | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| <b>Storage</b> | Store at -20°C/1 year                                                                                                                                        |

### ANTIGEN GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">ARNTL aryl hydrocarbon receptor nuclear translocator-like [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | ARNTL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | ARNTL; aryl hydrocarbon receptor nuclear translocator-like; aryl hydrocarbon receptor nuclear translocator-like protein 1; bHLHe5; BMAL1; JAP3; MOP3; PASD3; bHLH-PAS protein JAP3; member of PAS protein 3; member of PAS superfamily 3; brain and muscle ARNT-like 1; PAS domain-containing protein 3; ARNT-like protein 1, brain and muscle; basic-helix-loop-helix-PAS orphan MOP3; basic-helix-loop-helix-PAS protein MOP3; class E basic helix-loop-helix protein 5; TIC; BMAL1c; MGC47515; |
| <b>GeneID</b>              | <a href="#">406</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | <a href="#">NM_001030272</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | <a href="#">NP_001025443</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | <a href="#">602550</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | O00327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 11p15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Pathway**

BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, 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;

**Function**

DNA binding; Hsp90 protein binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity; aryl hydrocarbon receptor binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;