

# **BMAL1 Polyclonal Antibody**

#### Description

Product type Primary Antibody

Code BT-AP00914

**Host** Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human BMAL1 around the non-

acetylation site of Lys538. AA range:501-550

Mol wt 68762

Species reactivity Human, Mouse, Rat

**Clonality** Polyclonal

Recommended application WB, IHC-p, ELISA

Concentration 1 mg/ml

Full name BMAL1 Antibody

Synonyms ARNTL; BHLHE5; BMAL1; MOP3; PASD3; Aryl hydrocarbon receptor nuclear translocator-like protein

1; Basic-helix-loop-helix-PAS protein MOP3; Brain and muscle ARNT-like 1Class E basic helix-loop-

helix pr

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

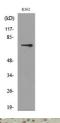
Aryl hydrocarbon receptor nuclear translocator-like protein 1 encoded by ARNTL is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Several transcript variants encoding different isoforms have been found for this gene.

#### **Recommended Dilution**

WB: 1: 500 - 1: 2000 IHC-p: 1: 100 - 1: 300 ELISA: 1: 20000

Not yet tested in other applications.

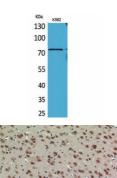
#### **Images**



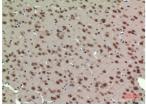
Western blot analysis of lysate from K562 cells, using BMAL1 Antibody.



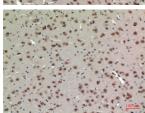
 $Immun ohistochemical\ analysis\ of\ paraffin-embedded\ rat-brain,\ antibody\ was\ diluted\ at\ 1:100$ 



Western Blot analysis of K562 cells using BMAL1 Polyclonal Antibody. Secondary antibody was diluted at 1:20000 cells nucleus.



 $Immun ohistochemical\ analysis\ of\ paraffin-embedded\ rat-brain,\ antibody\ was\ diluted\ at\ 1:100$ 



 $Immun ohistochemical\ analysis\ of\ paraffin-embedded\ rat-brain,\ antibody\ was\ diluted\ at\ 1:100$ 

## Storage

-20°C for one year

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