

## BMAL1 polyclonal antibody

Catalog: BS90138

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

BMAL1, ARNTL2 (aryl hydrocarbon receptor nuclear translocator-like 2) is a basic Helix-Loop-Helix-Per-Arnt-Sim (bHLH-PAS) transcription factor. ARNTL2-CLOCK heterodimers activate E-box element (3'-CACGTG-5') transcription. Also, in umbilical vein endothelial cells, ARNTL2 activates SERPINE1 through E-box sites. This transactivation is inhibited by PER2 and CRY1. The NPAS2-ARNTL/BMAL1 heterodimer positively regulates the expression of MAOA, F7 and LDHA and modulates the circadian rhythm of day-time contrast sensitivity by regulating the rhythmic expression of adenylate cyclase type 1 (ADCY1) in the retina. The CLOCK-ARNTL/BMAL1 heterodimer also recognizes the non-canonical E-box motifs 5'-AACGTGA-3' and 5'-CATGTGA-3'. Essential for the rhythmic interaction of CLOCK with ASS1 and plays a critical role in positively regulating CLOCK-mediated acetylation of ASS1.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

68 kDa

### Swiss-Prot:

O00327(Human) Q9WTL8(Mouse) Q9EPW1(Rat)

### Purification&Purity:

Protein affinity purified.

### Applications:

WB:1:500-2,000

ICC:1:100-1:500

IHC:1:50-1:200

FC:1:50-1:100

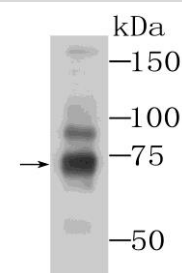
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

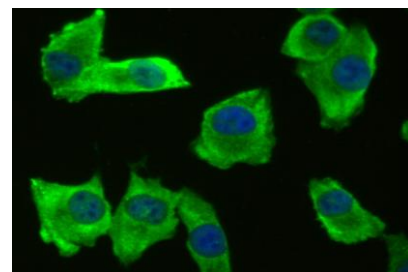
### Specificity:

BMAL1 polyclonal antibody detects endogenous levels of BMAL1 protein.

### DATA:



Western blot analysis of BMAL1 on SY5H5Y cell lysates using anti-BMAL1 antibody at 1/1,000 dilution.



ICC staining BMAL1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

For research use only, not for use in diagnostic procedure.

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