

## Clock Polyclonal Antibody

<b>CATALOG #:</b>	3896-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 842of mouse Clock (Internal ID# BV-C23)
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat

### FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**STORAGE CONDITIONS:** Store at -20°C. For long term storage, store at -70°C.

### DESCRIPTION:

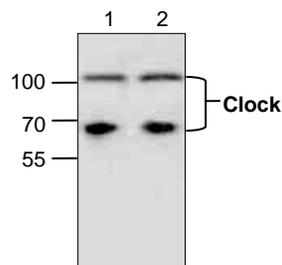
Clock is a basic helix-loop helix (bHLH) transcription factor that regulates circadian rhythms and sleep cycles. Clock contain a DNA-binding domain, a protein dimerization domain that heterodimerizes with BMAL1 and a glutamine-rich C terminus region. Clock dimerization with BMAL helps regulate nuclear translocation and binding of Clock to the E box elements stimulates circadian genes transcription.

### SPECIFICITY:

The antibody recognizes the 100 kDa and the ~62 kDa isoforms of CLOCK in samples from human, mouse and rat origins. Reactivity to other species has not been tested.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3896BP-50) is available separately.



**Cat.#: 3896-100**  
Western blot analysis of Clock expression in Jurkat cell lysate (Lane 1 & 2).

**FOR RESEARCH USE ONLY! Not to be used on humans.**

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