

## Clock Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP01990
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Clock. AA range:241-290
<b>Mol wt</b>	95304
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Clock Antibody
<b>Synonyms</b>	CLOCK; BHLHE8; KIAA0334; Circadian locomoter output cycles protein kaput; hCLOCK; Class E basic helix-loop-helix protein 8; bHLHe8

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

### Background

Clock circadian regulator encoded by CLOCK plays a central role in the regulation of circadian rhythms. The protein encodes a transcription factor of the basic helix-loop-helix (bHLH) family and contains DNA binding histone acetyltransferase activity. The encoded protein forms a heterodimer with ARNTL (BMAL1) that 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. Polymorphisms in CLOCK may be associated with behavioral changes in certain populations and with obesity and metabolic syndrome. Alternative splicing results in multiple transcript variants.

### Recommended Dilution

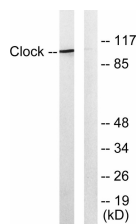
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

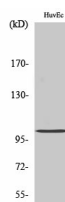
ELISA: 1: 20000

Not yet tested in other applications.

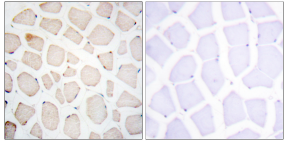
### Images



Western blot analysis of lysates from HUVEC cells, using Clock Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Clock Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using Clock Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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