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CLOCK

Reactivity: Human Mouse Rat

Tested applications:WB IF IP

Recommended Dilution:WB 1:500 - 1:2000 IF 1:50 - 1:200 IP 1:20 - 1:50

Calculated MW:95kDa

Observed MW: Refer to figures

Immunogen:

Recombinant protein of human CLOCK

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

k

Synonym:

KAT13D; bHLHe8;

Catalog #:A7415

Antibody Type:

Polyclonal Antibody

Species: Goat

Gene ID:9575

Isotype: IgG

Swiss Prot:O15516

Purity: Affinity purification

For research use only.

Background:

The protein encoded by this gene 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 this gene may be associated with behavioral changes in certain populations and with obesity and metabolic syndrome. Alternative splicing results in multiple transcript variants.

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