

Anti-CLOCK Polyclonal Antibody

Product Details

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| Ig Type: | IgG |
| Reactivity: | Rat (predicted:Human,Mouse,Cow,Horse,Rabbit,Sheep) |
| Molecular Weight: | Theoretical: 95 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (KAT13D) Polyclonal Antibody, Unconjugated (TMAB-04463) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| Application: | IHC-P,IHC-Fr,IF |
| Recommended | IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human CLOCK |
| Antigen Species: | Human |
| Gene ID: | 9575 |
| Uniprot ID: | O15516 |

Research 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. [provided by RefSeq, Jan 2014]

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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