

## Anti-KAT13D/CLOCK Antibody Picoband® Biotin Conjugated

Catalog Number: RP1082-Biotin

### About CLOCK

Clock (Circadian Locomotor Output Cycles Kaput) is also known as KAT13D. The protein encoded by this gene plays a central role in the regulation of circadian rhythms. This protein encodes a transcription factor of the basic helix-loop-helix (bHLH) family and contains DNA binding histone acetyltransferase activity. And 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.

### Overview

Product Name	Anti-KAT13D/CLOCK Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O15516

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human KAT13D/CLOCK, different from the related mouse sequence by one amino acid, and identical to the related rat sequence.
Predicted Reactive Species	Chicken
Cross Reactivity	No cross reactivity with other proteins
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental

requirements.

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