

<b>Cat. No:</b>	AB-E5789
<b>Conjugate:</b>	unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	Polyclonal
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	The antiserum was produced against synthesized peptide derived from human Clock. AA range:241-290
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	Western Blot 1:500- 1:2000 IHC(P) 1:100-1:300
<b>Molecular Weight:</b>	95kd
<b>Purification:</b>	affinity purified
<b>Synonyms:</b>	CLOCK; BHLHE8; KIAA0334; Circadia helix-loop-helix protein 8; bHLHe8n locomoter output cycles protein kaput; hCLOCK; Class E basic
<b>Background:</b>	<p>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.</p>
<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
<b>Storage:</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.

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