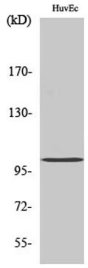
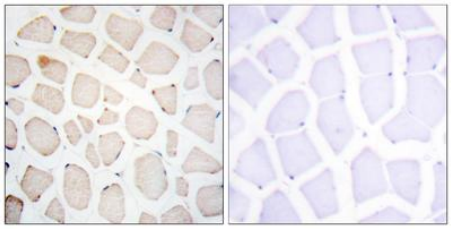
Product Data Sheet:
Clock Rabbit Polyclonal Antibody

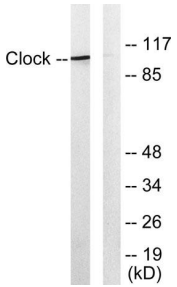
Cat. No:	AB-E5789
Conjugate:	unconjated
Size:	100 ug
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human Clock. AA range:241-290
Reactivity:	Human, Mouse, Rat
Applications:	Western Blot 1:500- 1:2000 IHC(P)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



Western Blot analysis of various cells using CLOCK Polyclonal Antibody with a dilution 1:500 -1:1000



IHC (P) Hu skeletal Muscle tissues using Clock Antibody the picture on the right is blocked with a synthesized peptide



Western Blot of UVEC cell lysate

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