

Clock rabbit pAb

Cat No.:ES2004

For research use only

Overview

Product Name Clock rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA Species Cross-Reactivity Human;Mouse;Rat

Recommended dilutions Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human Clock. AA

range:241-290

Specificity Clock Polyclonal Antibody detects endogenous

levels of Clock protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Circadian locomoter output cycles protein kaput

Gene Name CLOCK

Cellular localization Nucleus . Cytoplasm . Cytoplasm, cytosol . Shuttling

between the cytoplasm and the nucleus is under

circadian regulation and is

ARNTL/BMAL1-dependent. Phosphorylated form located in the nucleus while the nonphosphorylated

form found only in the cytoplasm.

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 95kD
Human Gene ID 9575
Human Swiss-Prot Number O15516

Alternative Names CLOCK; BHLHE8; KIAA0334; Circadian locomoter

output cycles protein kaput; hCLOCK; Class E basic



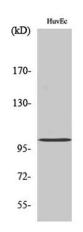
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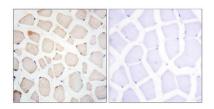


Background

helix-loop-helix protein 8; bHLHe8 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],



Western Blot analysis of various cells using Clock Polyclonal Antibody



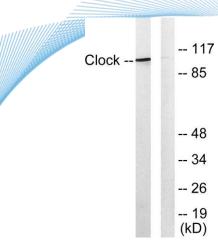
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Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using Clock Antibody. The picture on the right is blocked with the synthesized peptide.



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Western blot analysis of lysates from HUVEC cells, using Clock Antibody. The lane on the right is blocked with the synthesized peptide.



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