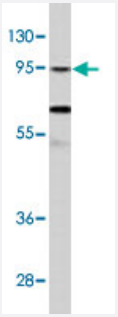
CLOCK polyclonal antibody

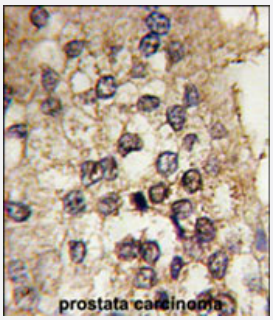
Catalog # PAB2981 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of NCI-H460 cell lysate (35 ug/lane) with CLOCK polyclonal antibody (Cat # PAB2981).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with CLOCK polyclonal antibody (Cat # PAB2981) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CLOCK.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human CLOCK.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of NCI-H460 cell lysate (35 ug/lane) with CLOCK polyclonal antibody (Cat # PAB2981).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — CLOCK

Entrez GeneID	9575
Protein Accession#	NP_004889;O15516
Gene Name	CLOCK
Gene Alias	KAT13D, KIAA0334, bHLHe8
Gene Description	clock homolog (mouse)
Omim ID	601851
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the basic helix-loop-helix (bHLH) family of transcripti on factors. Polymorphisms within the encoded protein have been associated with circadian rhyth m sleep disorders. A similar protein in mice is a circadian regulator that acts as a transcription fa ctor and forms a heterodimer with aryl hydrocarbon receptor nuclear translocator-like to activate tr anscription of mouse period 1. [provided by RefSeq
Other Designations	OTTHUMP00000128334|circadian locomoter output cycles kaput protein|clock

Publication Reference

- Genetic variants of Clock transcription factor are associated with individual susceptibility to obesity.

  Sookoian S, Gemma C, Gianotti TF, Burgueno A, Castano G, Pirola CJ.

  The American Journal of Clinical Nutrition 2008 Jun; 87(6):1606.

- Shift work, hCLOCK T3111C polymorphism, and endometriosis risk.

  Marino JL, Holt VL, Chen C, Davis S.

  Epidemiology 2008 May; 19(3):477.

- DEC1 modulates the circadian phase of clock gene expression.

  Nakashima A, Kawamoto T, Honda KK, Ueshima T, Noshiro M, Iwata T, Fujimoto K, Kubo H, Honma S, Yorioka N, Kohno N, Kato Y.

  Molecular and Cellular Biology 2008 Jun; 28(12):4080.

  Application : ChIP, Human, Human fibroblast-like cells

Pathway

- Circadian rhythm - mammal

Disease

- Alcoholism
- Anorexia Nervosa
- Arousal
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bipolar Disorder
- Body Weight
- Breast cancer
- Bulimia Nervosa

- Carcinoma
- Cardiovascular Diseases
- Choice Behavior
- Chronobiology Disorders
- Cluster Headache
- Cocaine-Related Disorders
- Decision Making
- Depressive Disorder
- Diabetes Mellitus
- Disease Models
- Disorders of Excessive Somnolence
- Edema
- Endometriosis
- Esophageal Neoplasms
- Fatty Liver
- Genetic Predisposition to Disease
- Insulin Resistance
- Interview
- Metabolic Syndrome X
- Mood Disorders
- Neuropsychological Tests
- Obesity
- Overweight
- Paranoid Disorders
- Personality Assessment
- Prostatic Neoplasms

- Psychiatric Status Rating Scales
- Psychotic Disorders
- Recurrence
- Schizophrenia
- Seasonal Affective Disorder
- Sleep
- Sleep Disorders
- Sleep Initiation and Maintenance Disorders
- Thinness
- Time Perception
- Weight Gain
- Weight Loss