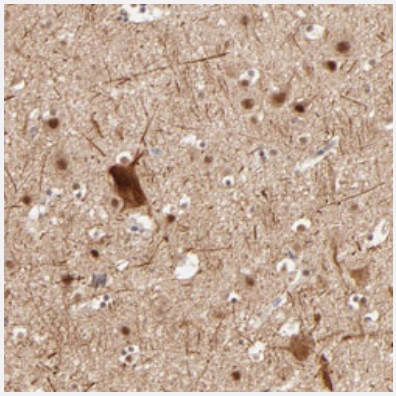
CLOCK polyclonal antibody

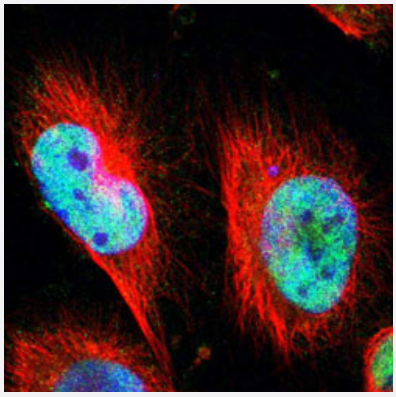
Catalog # PAB29318 Size 100 uL

Applications



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

Immunohistochemical staining of human cerebral cortex with CLOCK polyclonal antibody (Cat# PAB29318) shows moderate nuclear positivity in neuronal cells.



Immunofluorescence

Immunofluorescent staining of human cell line U-251 MG with CLOCK polyclonal antibody (Cat# PAB29318) under 1-4 ug/mL working concentration shows positivity in nucleus but excluded from the nucleoli.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human CLOCK.
Immunogen	Recombinant protein corresponding to amino acids of human CLOCK.
Sequence	RQQEELRKIQEQLQMVHGQGLQMFLQQSNPGLNFGSVQLSSGNSSNIQQLAPINMQGQVVPTNQI QSGMNTGHIGTTQHMIQQQTLQSTSTQSQQNVLSGHSQQTSLPSQTQSTLTAPLYNTMVISQPAA GSMVQIPSSMPQNSTQS
Host	Rabbit

Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:20-1:50) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% 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

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

  Immunohistochemical staining of human cerebral cortex with CLOCK polyclonal antibody (Cat# PAB29318) shows moderate nuclear positivity in neuronal cells.

- Immunofluorescence

  Immunofluorescent staining of human cell line U-251 MG with CLOCK polyclonal antibody (Cat# PAB29318) under 1-4 ug/mL working concentration shows positivity in nucleus but excluded from the nucleoli.

Gene Info — CLOCK

Entrez GeneID	9575
Protein Accession#	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

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