

Rabbit CLOCK Monoclonal Antibody | anti-CLOCK antibody

CLOCK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30360	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CLOCK; Monoclonal Antibody; CLOCK Antibody; bHLHe8 antibody; Circadian locomoter output cycles kaput protein antibody; Circadian locomoter output cycles protein kaput antibody; Circadian Locomotor Output Cycles Kaput antibody; Circadium Locomotor Output Cycles Kaput antibody; Class E basic helix-loop-helix protein 8 antibody; CLOCK antibody; Clock circadian regulator antibody; Clock homolog antibody; Clock protein antibody; CLOCK_HUMAN antibody; hCLOCK antibody; KIAA0334 antibody; anti-CLOCK antibody

PRODUCT SPECIFICATIONS

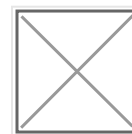
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JA12-33
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CLOCK antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:1000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



FCM (Flow Cytometry)

Flow cytometric analysis of Hela cells with CLOCK antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



ICC (Immunocytochemistry)

ICC staining CLOCK in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**ICC (Immunocytochemistry)**

ICC staining CLOCK in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-CLOCK antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-CLOCK antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded 2 colon tissue using anti-CLOCK antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-CLOCK antibody	Biological timepieces called circadian clocks are responsible for the regulation of hormonal rhythms, sleep cycles and other behaviors. The suprachiasmatic nucleus (SCN), which is located in the brain, was the first mammalian circadian clock to be discovered. Clock, a member of the Basic-helix-loop-helix-ppp (bHLH-PAS) family of transcription factors, has also been identified as having circadian function. Mutations within the clock gene have been shown to increase the length of the endogenous period and To contain a loss of rhythmicity of circadian oscillations. Clock contains a DNA-binding domain, a protein dimerization domain and a glutamine-rich C-terminal region, which indicates transactivation ability. It has been speculated that Clock may regulation circadian rhythmicity in combination with Other proteins such as Per. Per is also a PAS-domain containing protein that exhibits circadian function. Highest expression of Clock is seen in the hypothalamus and the eye.
Product Categories/Family for anti-CLOCK antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	392841204
NCBI GeneID	9575
NCBI Accession #	NP_001254772.1
NCBI GenBank Nucleotide #	NM_001267843.1
UniProt Accession #	O15516 ; O14516 ; Q9UIT8 ; A0AV01 ; A2I2N9
Molecular Weight	95,304 Da
NCBI Official Full Name	circadian locomoter output cycles protein kaput
NCBI Official Synonym Full Names	clock circadian regulator
NCBI Official Symbol	CLOCK
NCBI Official Synonym Symbols	KAT13D; bHLHe8
NCBI Protein Information	circadian locomoter output cycles protein kaput; clock homolog; class E basic helix-loop-helix protein 8; circadian locomoter output cycles kaput protein
UniProt Protein Name	Circadian locomoter output cycles protein kaput
UniProt Gene Name	CLOCK
UniProt Synonym Gene Names	BHLHE8; KIAA0334; hCLOCK; bHLHe8
UniProt Entry Name	CLOCK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/clock-antibody-clone-ja12-33-western-blot-immunocytochemistry-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/30360>