Human CLOCK Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4026

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLOCK in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CLOCK Glu108-Glu234 Accession # O15516
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

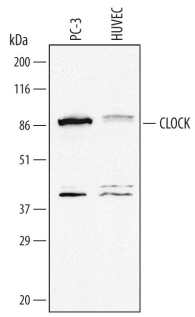
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human CLOCK by Western Blot. Western blot shows lysates of PC-3 human prostate cancer cell line and HUVEC human umbilical vein endothelial cells. PVDF membrane was probed with 0.5 µg/mL of Human CLOCK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4026) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CLOCK at approximately 95 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CLOCK is an essential regulator of circadian rhythms. CLOCK is a basic helix-loop-helix-PAS transcription factor that heterodimerizes with BMAL1. Together these transcription factors bind to E box elements (CACGTG) within the promoter of circadian genes (period1 and 2) stimulating their transcription. BMAL dimerization is necessary for CLOCK's nuclear translocation, E box dependent transcription, phosphorylation, and degradation.

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