

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLOCK in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CLOCK Glu108-Glu234 Accession # O15516
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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