

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PER1 in direct ELISAs.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PER1 Ser159-Thr365 Accession # O15534
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.

Immunohistochemistry 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

PER1 (Period circadian protein 1; also known as RIGUI) is a 188 kDa member of the PER family of molecules. It apparently influences circadian rhythms by interacting with, and stabilizing, other circadian regulatory proteins. PER1 undergoes extensive phosphorylation that may regulate its intracellular localization. Human PER1 is 1290 amino acids (aa) in length. It contains a bHLH region (aa 122-173), an extended PAS domain (aa 183-463) plus an NLS and NES. Multiple splice forms exist. Two show deletions (aa 741-820 and aa 209-217), while two show aa substitutions: 9 aa for the C-terminal 1005 aa, and 29 aa for the C-terminal 747 amino acids. Over aa 159-365, human PER1 is 96% identical to mouse, rat, and dog PER1.

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