PER2 Antibody (R31725)

Catalog No.	Formulation	Size
R31725	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	8864
Applications	Western blot: 0.5-1ug/ml
Limitations	This PER2 antibody is available for research use only.



Western blot testing of PER2 antibody and Lane 1: A549; 2: PANC lysate

Description

Period circadian protein homolog 2 is a member of the Period family of proteins and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. It has been showed that PER2 can positively stimulate activity of the Bmal1-Npas2 transcription complex and, in turn, Npas2 transcriptionally regulates delta-aminolevulinate synthase. It is involved in a negative-feedback loop that attenuates estrogen stimulation and links the circadian cycle to estrogen receptor signaling. The rhythmic levels of PER2 are critical for circadian oscillations in cells and intact organisms. The protein also functions in tumor suppression by regulating DNA damage-responsive pathways.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PER2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 13-330) was used as the immunogen for this PER2 antibody.

Storage

After reconstitution, the PER2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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