

bs-3927R**[Primary Antibody]****BioSS**
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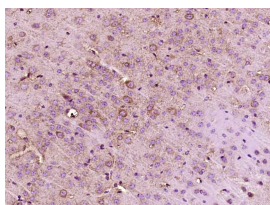
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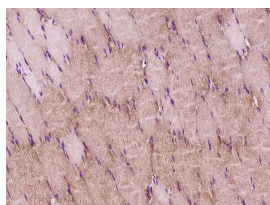
400-901-9800

PER2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 8864	SWISS: O15055	
Target: PER2		Reactivity: Mouse, Rat (predicted: Human)
Immunogen: KLH conjugated synthetic peptide derived from human PER2: 751-850/1225.		
Purification: affinity purified by Protein A		Predicted MW.: 138 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm ,Nucleus
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: PER2, a mammalian homologue of the Drosophila period gene, shares a 40% homology with PER1 including the protein dimerization PAS domain. PER2 is a circadian regulator that may act as a transcription factor. It behaves as a negative element in circadian transcriptional loop. PER2 does not appear to bind DNA, suggesting indirect transcriptional inhibition. Expression oscillates with a 24 hour rhythm in the suprachiasmatic nucleus (SCN) and the whole eyes. Oscillations are maintained under constant darkness and are responsive to changes of the light/dark cycles. There is a 4 hour time delay between PER1 and PER2 oscillations. The expression rhythms appear to originate from retina.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PER2) Polyclonal Antibody, Unconjugated (bs-3927R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PER2) Polyclonal Antibody, Unconjugated (bs-3927R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=6.354]** Mishra, Rakesh. et al. Reversible dysregulation of renal circadian rhythm in lupus nephritis. Mol Med. 2021 Dec;27(1):1-12 ELISA ;mouse. 34488619
- **[IF=5.227]** Yi-Ting Chen. et al. Early detection of the initial stages of LED light-triggered non-alcoholic fatty liver disease by wax physisorption kinetics-Fourier transform infrared imaging. ANALYST. 2022 Dec;; IHC ;Mouse. 36621928

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.