

Anti-PER2 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9312-Fluoro488

About PER2

The PER2 gene encodes the period circadian protein homolog 2 protein in humans. This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. PER2 is mapped to 2q37.3. It has been showed that PER2 can positively stimulate activity of the Bmal1-Npas2 transcription complex and, in turn, Npas2 transcriptionally regulates delta-aminolevulinic synthase. PER2 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. What's more, the PER2 gene also functions in tumor suppression by regulating DNA damage-responsive pathways.

Overview

Product Name	Anti-PER2 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	O15055

Technical Details

Immunogen	E.coli-derived human PER2 recombinant protein (Position: N13-K330). Human PER2 shares 84% and 83% amino acid (aa) sequence identity with mouse and rat PER2, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

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