

Anti-PER2 Polyclonal Antibody 3

Product Details

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| Ig Type: | IgG |
| Reactivity: | Mouse,Rat (predicted:Human) |
| Molecular Weight: | Theoretical: 138 kDa. |
| Purification: | Protein A purified |

Applications

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| Verified Activity: | 1. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PER2/Period circadian protein 2) Polyclonal Antibody, Unconjugated (TMAB-10179) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| | 2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PER2/Period circadian protein 2) Polyclonal Antibody, Unconjugated (TMAB-10179) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. |
| Application: | IHC-P,IHC-Fr,IF |
| Recommended | IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human PER2/Period circadian protein 2 |
| Antigen Species: | Human |
| Gene ID: | 8864 |
| Uniprot ID: | O15055 |

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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