

## Anti-Cyclin E1/CCNE1 Antibody Picoband® PE Conjugated

Catalog Number: A00543-2-PE

### About CCNE1

G1/S-specific cyclin-E1 is a protein that in humans is encoded by the CCNE1 gene. It is mapped to 19q12. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Cyclin E1/CCNE1 Antibody Picoband® PE Conjugated  |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Rabbit   |
| Uniprot ID           | P24864   |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E.coli-derived human Cyclin E1/CCNE1 recombinant protein (Position: R3-A386). |
| Cross Reactivity | No cross-reactivity with other proteins.                                      |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | PE  |

|                     |  |
|---------------------|--|
|                     | Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users.         |

## 13 Publications Citing This Product

1. PubMed ID: 10.3892/or.2016.4935, Platycodin D, a metabolite of Platycodin grandiflorum, inhibits highly metastatic MDA-MB-231 breast cancer growth in vitro and in vivo by targeting the MDM2 oncogene
2. PubMed ID: 10.3892/ijmm.2021.5071, Microrchidia family CW $\beta$  type zinc finger 2 promotes the proliferation, invasion, migration and epithelial $\rightarrow$ mesenchymal transition of glioma by regulating PTEN/PI3K/AKT signaling via binding to N $\beta$ myc downstream regulated gene 1 promoter
3. PubMed ID: 10.1002/ptr.3039, Crocetin inhibits cell cycle G1/S transition through suppressing cyclin D1 and elevating p27kip1 in vascular smooth muscle cells

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