

Anti-CDK1 Antibody Picoband® PE Conjugated

Catalog Number: PB9533-PE

About CDK1

CDC2, Cell Division Cycle 2, is also known as CDK1 (Cyclin-dependent Kinase 1). CDC2 is a catalytic subunit of a protein kinase complex, called the M-phase promoting factor that induces entry into mitosis and is universal among eukaryotes. In HeLa cells CDC2 is the most abundant phosphotyrosine-containing protein and its phosphotyrosine content is subject to cell cycle regulation. CDC2 gene is located on chromosome 10.

Overview

Product Name	Anti-CDK1 Antibody Picoband® PE Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, IHC-F, ICC, 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 ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P06493

Technical Details

Immunogen	E.coli-derived human CDK1 recombinant protein (Position: L66-M297). Human CDK1 shares 97.8% and 98.3% amino acid (aa) sequence identity with mouse and rat CDK1, respectively.
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 Emission Wavelength: 574 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

17 Publications Citing This Product

1. PubMed ID: 10.3892/or.2016.4742, A novel cell cycle blocker extracted from *Stellera chamaejasme* L. inhibits the proliferation of hepatocarcinoma cells
2. PubMed ID: 10.1080/13880209.2021.1931354, Extract of *Ganoderma sinensis* spores induces cell cycle arrest of hepatoma cell via endoplasmic reticulum stress
3. PubMed ID: 33779025, Blakemore D, Vilaplana-Lopera N, Almaghrabi R, Gonzalez E, Moya M, Ward C, Murphy G, Gambus A, Petermann E, Stewart GS, García P. MYBL2 and ATM suppress replication stress in pluripotent stem cells. *EMBO Rep.* 2021 Mar 28:e51120. doi:10.15252/embr.202051120. Epub ahead of print. PMID:33779025.

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