

## Anti-CDK1 Antibody (Monoclonal, A17)

Catalog Number: MA1077

### About Cdk1

P34 (cdc2), also known as cell division cycle (CDC2), or cyclin-dependent kinase 1 (CDK1). 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 (Monoclonal, A17)
Reactive Species	Chicken, Human, Mouse
Description	Boster Bio Anti-CDK1 Antibody (Monoclonal, A17) catalog # MA1077. Tested in IHC, WB applications. This antibody reacts with Chicken, Human, Mouse.
Application	IHC, WB
Clonality	Monoclonal A17
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN <sub>3</sub> as preservative.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P39951

### Technical Details

Immunogen	C-terminal two-thirds of Xenopus CDK1 expressed in E.coli.
Predicted Reactive Species	Canine, Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and IHC(F).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG2a
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (Paraffin-embedded Section), 1-2ug/ml, Human, chicken, mouse, By Heat

Immunohistochemistry (Frozen Section), 1-2ug/ml, Human, chicken, mouse, -

Western blot, 0.5-1ug/ml, Human, chicken, mouse

## Anti-CDK1 Antibody (Monoclonal, A17) (MA1077) Images



Boster Kit Box

## 12 Publications Citing This Product

1. 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.
2. PubMed ID: 33292254, Wang C, Shao S, Deng L, Wang S, Zhang Y. LncRNA SNHG12 regulates the radiosensitivity of cervical cancer through the miR-148a/CDK1 pathway. Cancer Cell Int. 2020 Dec 1;20(1):554. doi:10.1186/s12935-020-01654-5. PMID:33292254; PMCID:PMC7708190.
3. PubMed ID: 25734831, Ren J, Huang Q, Xu Y, Yang M, Yang J, Hu K. Anticancer Drugs. 2015 Jul;26(6):599-611. Doi: 10.1097/Cad.0000000000000224. Isoflavone Lupiwighteone Induces Cytotoxic, Apoptotic, And Antiangiogenic Activities In Du-145 Prostate Cancer Cells.

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