

# CDK1 Polyclonal Antibody

Catalog Number: E-AB-93330

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

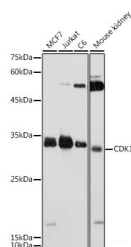
## Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	A synthetic peptide of human CDK1
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Formulation</b>	PBS with 0.01% thiomersal, 50% glycerol, pH 7.3.

## Applications Recommended Dilution

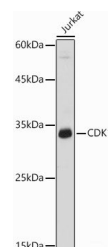
<b>WB</b>	1:500-1:2000
<b>IF</b>	1:50-1:200
<b>IP</b>	50-1:200

## Data

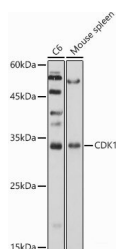


Western blot analysis of extracts of various cell lines using CDK1 Polyclonal Antibody at 1:1000 dilution.

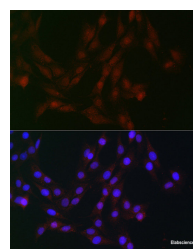
**Observed Mw: Refer to figures**  
**Calculated Mw: 27kDa/34kDa**



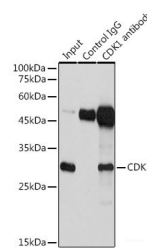
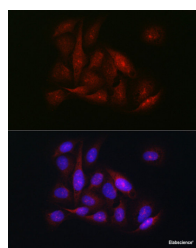
Western blot analysis of extracts of Jurkat cells using CDK1 Polyclonal Antibody at 1:1000 dilution.



Western blot analysis of extracts of various cell lines using CDK1 Polyclonal Antibody at 1:1000 dilution.



Immunofluorescence analysis of C6 cells using CDK1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



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Immunofluorescence analysis of U2OS cells using CDK1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Immunoprecipitation analysis of 600ug extracts of Jurkat cells using 3ug CDK1 Polyclonal Antibody. Western blot was performed from the immunoprecipitate us

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze/thaw cycles.

## Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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