

## CDK1

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC IF

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:100 IF 1:50 - 1:200

**Calculated MW:** 34kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human CDK1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bd

**Synonym:**

CDC2; CDC28A; CDK1; DKFZp686L20222; MGC111195 ;

**Catalog #:** A0220

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 983

**Isotype:** IgG

**Swiss Prot:** P06493

**Purity:** Affinity purification

For research use only.

**Background:**

The entry of eukaryotic cells into mitosis is regulated by cdc2 kinase activation, a process controlled at several steps including cyclin binding and phosphorylation of cdc2 at Thr161 (1). However, the critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of cdc2 at Thr14 and Tyr15 (2). Phosphorylation at Thr14 and Tyr15, resulting in inhibition of cdc2, can be carried out by Wee1 and Myt1 protein kinases (3,4). The cdc25 phosphatase may be responsible for removal of phosphates at Thr14 and Tyr15 and subsequent activation of cdc2 (1,5).

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