

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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