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CDK1

Reactivity: Human Rat

Tested applications:WB ICC

Recommended Dilution:WB 1:100 - 1:200 ICC 1:50 - 1:100

Calculated MW:34kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein 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 #:A0030

Antibody Type:

Monoclonal Antibody

Species: Mouse

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 CDK1 kinase activation, a process controlled at several steps including cyclin binding and phosphorylation of CDK1 at Thr161 (1). However, the critical regulatory step in activating CDK1 during progression into mitosis appears to be dephosphorylation of CDK1 at Thr14 and Tyr15 (2). Phosphorylation at Thr14 and Tyr15, resulting in inhibition of CDK1, can be carried out by Wee1 and Myt1 protein kinases (3,4). The CDK15 phosphatase may be responsible for removal of phosphates at Thr14 and Tyr15 and subsequent activation of CDK1 (1,5).

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