CDK1
Mouse Anti-Human Cell Division Kinase 1 Clone POH-1 mAb

Catalog No.	CSI14300 CSI14301	**Quantity:**	25 µg 100 µg

Alternate Names: CDC28A, CDK1, cell cycle controller CDC2, cell division control protein 2 homolog, cell division cycle 2, cyclin-dependent kinase 1, p34 protein kinase

Description: Cdc2 (p34), also known as cell division cycle 2, G1 to S and G2 to M; cyclin dependent kinase 1, p34 kinase, and CDK1, is serine/threonine kinase that is ubiquitously expressed in eukaryotes. Cdc2 is found as both a cytoplasmic and nuclear protein. cdc2 is a catalytic subunit of a protein kinase called the M-phase promoting factor that induces entry into mitosis universally in eukaryotes. The cdc2 protein is highly phosphorylated on threonine, serine, and tyrosine; tyrosine phosphorylation is subject to cell cycle regulation. Cdc2 has been shown to interact with numerous proteins including cyclin A1, cyclin A2, cyclin B1, cyclin B2, BRCA1, dynamin 2, Fyn, Lyn, and p53. The POH-1 antibody recognizes human, monkey and bovine cdc2 and is useful for Western blotting. The POH-1 antibody has also been reported to be useful for immunoprecipitation, immunohistochemistry (formalin-fixed, paraffin embedded), and immunofluorescence.

Concentration: 0.5 mg/ml

Gene ID: 983

Structure: Serine/threonine kinase; molecular weight approximately 34 kD.

Distribution: Ubiquitous expression in eukaryotes, cytoplasmic and nuclear.

Host: Mouse

Immunogen: Recombinant human cdc2 protein

Isotype: IgG2a, κ

Clone: POH-1

Function: Cdc2 is a catalytic subunit of a protein kinase called the M-phase promoting factor that induces entry into mitosis universally among eukaryotes.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: This antibody was purified by affinity chromatography.

Modification: Highly phosphorylated (threonine, serine, tyrosine); tyrosine phosphorylation subject to cell cycle regulation.

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Reactivity: Human, Monkey, Cattle (Bovine). Does not react with Mouse, rat, Xenopus, Drosophila

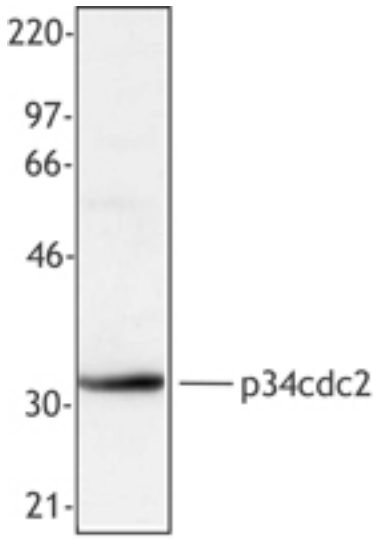
Applications: IF, IHC, IP, WB

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 5 µg per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1-4 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.

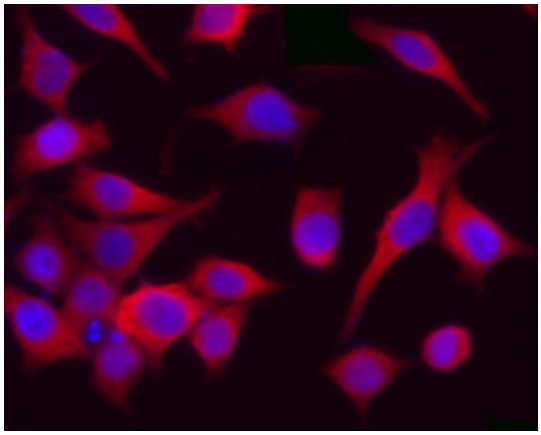
Storage & Stability: Upon receipt, store undiluted at 4° C.

Interaction: Interacts with numerous proteins including cyclin A1, cyclin A2, cyclin B1, cyclin B2, BRCA1, dynamin 2, Fyn, Lyn, p53.

Hela extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal antibody against cdc2 (p34). Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.



Hela cells stained with purified mouse monoclonal antibody against Cdc2(p34) (clone POH-1), followed by Rhodamine Red-X conjugated goat anti-mouse IgG and DAPI



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