

Product datasheet for AP20725PU-S

CDK1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WE

Recommended Dilution: Western blot: 1/500-1/1000.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of Cdc2 protein.

(region surrounding Lys9)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~34 kDa

Gene Name: cyclin-dependent kinase 1

Database Link: Entrez Gene 12534 MouseEntrez Gene 54237 RatEntrez Gene 983 Human

P06493



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CDK1 Rabbit Polyclonal Antibody - AP20725PU-S

Background: Cdc2 exists as a complex with both cyclin A and cyclin B. The best characterized of these

associations is the Cdc2 p34 cyclin B complex, which is required for the G2 to M phase transition. Activation of Cdc2 is controlled at several steps including cyclin binding and phosphorylation of threonine 161. However, the critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of Tyr15 and Tyr14. Phosphorylation at Tyr15 and inhibition of Cdc2 is carried out by WEE1 and MIK protein kinases while Tyr15 dephosphorylation and activation of Cdc2 is carried out by the cdc25 phosphatase. The isoform CDC2deltaT is found in breast cancer tissues. Furthermore, cdc2/Cdk1 is a key mediator of neuronal cell death in brain development and degeneration.

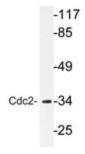
Synonyms: CDK1, CDC2, CDC28A, CDKN1, P34CDC2, p34 protein kinase

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle, Gap junction, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated

oocyte maturation

Product images:



Western blot analyzes of Cdc2 antibody (Cat.-No.: [AP20725PU-N]) in extracts from HepG2 cells.