### **Product Name: CDC2 Mouse Monoclonal Antibody**

Catalog #: AMM80842



### **Summary**

Production Name CDC2 Mouse Monoclonal Antibody

**Description** Mouse Monoclonal Antibody

**Host** Mouse

**Application** WB,ICC,FC,ELISA

Reactivity Human

### **Performance**

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Ascitic fluid containing 0.03% sodium azide.

**Purification** Affinity Purification

### **Immunogen**

Storage

Gene Name CDC2

Alternative Names CDC2; CDC28A; P34CDC2; MGC111195; DKFZp686L20222; CDK1

**Gene ID** 983.0

**SwissProt ID** P06493.Purified recombinant fragment of CDC2 expressed in E. Coli.

### **Application**

**Dilution Ratio** WB:1:500-1:2000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000

Molecular Weight 34kDa

### **Background**

The cell division control protein cdc2, also known as cyclin-dependent kinase 1 (Cdk1) or p34/cdk1, plays a key role in the

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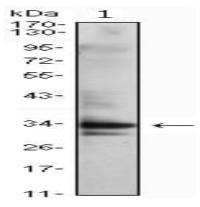


control of the eukaryotic cell cycle, where it is required for entry into S-phase and mitosis. Cdc2 exists as a complex with both cyclin A and cyclin B. The best characterized of these associations is the Cdc2 p34 cyclin B complex, which is required for the G2 to M phase transition. Activation of Cdc2 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.

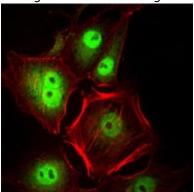
### **Research Area**

**Apoptosis** 

### **Image Data**



Western blot analysis using CDC2 mouse mAb against Jurkat (1) cell lysate.

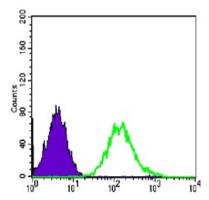


Immunofluorescence analysis of Hela cells using CDC2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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**C** EnkiLife



Flow cytometric analysis of PC-2 cells using CDC2 mouse mAb (green) and negative control (purple).

### Note

For research use only.