

### Recombinant CDK1/Cdc2 Monoclonal Antibody

catalog number: AN301969L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

**Reactivity** Human;Rat;Mouse;African green monkey **Immunogen** Recombinant human CDK1/Cdc2 fragment

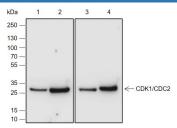
HostRabbitIsotypeIgG, κCloneA685

**Purification** Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

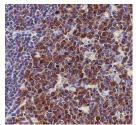
# Applications Recommended Dilution WB 1:1000 IHC 1:50-1:100 IF 1:50-1:100 FCM 1:50-1:100

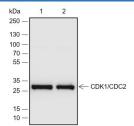
#### Data



Western Blot with CDK1/Cdc2 Monoclonal Antibody at dilution of 1:1000. Lane 1: A20, Lane 2: BRL, Lane 3: Rat

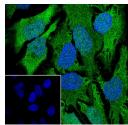
brain, Lane 4: COS-7
Observed-MW:34 kDa
Calculated-MW:34 kDa



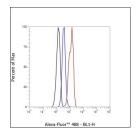


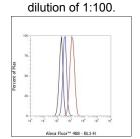
Western Blot with CDK1/Cdc2 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: A431

Observed-MW:34 kDa Calculated-MW:34 kDa



Immunohistochemistry of paraffin-embedded Human tonsil Immunofluorescent analysis of (4% Paraformaldehyde) fixed using CDK1/Cdc2 Monoclonal Antibody at dilution of 1:100. HeLa cells using anti-CDK1/Cdc2 Monoclonal Antibody at





#### For Research Use Only

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Flow cytometric analysis of human CDK1/Cdc2 expression on A20 cells. Cells were stained with purified anti-Human CDK1/Cdc2, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the step antibody. The histogram were derived from events with forward and side light-scatter characteristics of intact cells.

Flow cytometric analysis of human CDK1/Cdc2 expression on HeLa cells. Cells were stained with purified anti-Human CDK1/Cdc2, then a Alexa Fluor 488-conjugated second the forward and side light-scatter characteristics of intact cells.

#### **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

#### **Background**

CDC2, also named as CDK1, belongs to the protein kinase superfamily. 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. However, the critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of cdc2 at Thr14 and Tyr15. Phosphorylation at Thr14 and Tyr15, resulting in inhibition of cdc2, can be carried out by Wee1 and Myt1 protein kinases.

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