

## Cdk1/Cdc2 (phospho-T161) polyclonal antibody

Catalog: BS4033

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Cdc2, an evolutionarily conserved serine/threonine-specific protein kinase, is essential in the cell cycle transition from G2 to M phase. Cdc2 is regulated by association with B-type cyclins and by reversible phosphorylation. Cyclin B binding facilitates the phosphorylation of Cdc2 p34 on three regulatory sites: threonine 14, tyrosine 15, and threonine 161. In higher eukaryotes, Cdc2 is negatively regulated by phosphorylation of two residues located in the ATP-binding site, Thr 14 and Tyr 15. Cdc2 is positively regulated by the cyclin-dependent phosphorylation of Thr 161. Both phosphorylation and de-phosphorylation at Thr 161 are required for progression through the cell cycle.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 34 kDa

### Swiss-Prot:

P06493

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

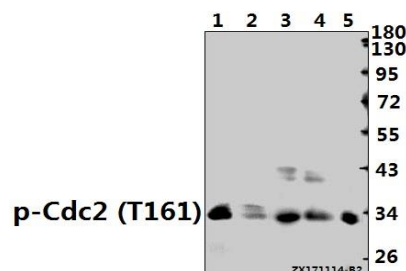
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-Cdk1/Cdc2 (T161) polyclonal antibody detects endog-

enous levels of p-Cdk1/Cdc2 protein only when phosphorylated at Thr161.

### DATA:



Western blot (WB) analysis of Cdk1/Cdc2 (phospho-T161) polyclonal antibody at 1:500 dilution

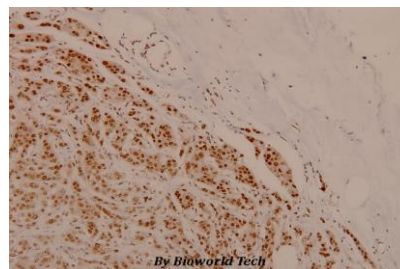
Lane1:PC12 whole cell lysate(40ug)

Lane2:3T3-L1 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Lane4:MCF-7 whole cell lysate(40ug)

Lane5:PC3 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Cdk1/Cdc2 (phospho-T161) polyclonal antibody in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151