Cdk1/Cdc2 (phospho-Y15) polyclonal antibody

Catalog: BCP00480 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 phosophorylation. 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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

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

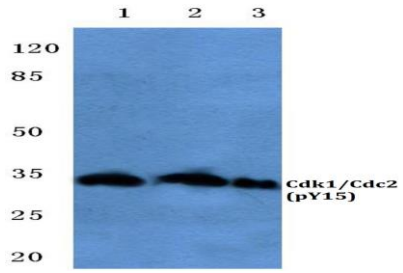
Storage&Stability:

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

Specificity:

p-Cdk1/Cdc2 (Y15) polyclonal antibody detects endogenous levels of Cdk1/Cdc2 protein only when phosphorylated at Tyr15.

DATA:



Western blot (WB) analysis of p-Cdc2 (Y15) pAb at 1:500 dilution

Lane1:MCF-7 whole cell lysate(40ug)

Lane2:HEK293T whole cell lysate(40ug)

Lane3:SGC7901 whole cell lysate(40ug)

Lane4:PC3 whole cell lysate(40ug)

Lane5:PC12 whole cell lysate(40ug)

Lane6:BV2 whole cell lysate(40ug)

Note:

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

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