Cyclin B1 (Phospho-S147) polyclonal antibody

Catalog: BS64509 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

In eukaryotic cells, mitosis is initiated following the activation of a protein kinase known variously as maturation-promoting factor, M-phase specific histone kinase or M-phase kinase. This protein kinase is composed of a catalytic subunit (Cdc2), a regulatory subunit (cyclin B) and a low molecular weight subunit (p13 SUC1). The Cdc/cyclin enzyme is subject to multiple levels of control of which the regulation of the catalytic subunit by tyrosine phosphorylation is the best understood. Tyrosine phosphorylation inhibits the Cdc2/cyclin B enzyme and tyrosine dephosphorylation, occurring at the onset of mitosis, directly activates the pre-MPF complex. Evidence has estalished that B-type cyclins not only act on M-phase regulatory subunits of the Cdc2 protein kinase, but also activate the Cdc25A and Cdc25B endogenous tyrosine phosphatase, of which Cdc2 is the physiological substrate. The specificity of this effect is shown by the inability of either cyclin A or cyclin D1 to display any such stimulation of Cdc25A or Cdc25B.

Product:

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

Molecular Weight:

~ 48 kDa

Swiss-Prot:

P14635

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 IF:1:50~1:200

Storage&Stability:

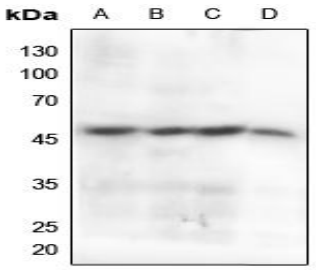
Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Cyclin B1 (Phospho-S147) polyclonal antibody detects endogenous levels of Cyclin

B1 protein only when phosphorylated at Ser147.

DATA:



Western blot (WB) analysis of Cyclin B1 (Phospho-S147) polyclonal antibody at 1:500 dilution

LaneA:HEK293T whole cell lysate

LaneB:Hela whole cell lysate

LaneC:The Testis tissue lysate of Mouse

LaneD:The Testis tissue lysate of Rat

Note:

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

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