WEE1 (Phospho-S642) polyclonal antibody

Catalog: BS64542 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Entry of all eukaryotic cells into mitosis is regulated by activation of cdc2 kinase. The critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of Tyr15 and Thr14. Phosphorylation at Tyr15 and Thr14 and inhibition of cdc2 is carried out by Wee1 and Myt1 protein kinases, while Tyr15 dephosphorylation and activation of cdc2 is carried out by the cdc25 phosphatase. Hyperphosphorylation and inactivation of Myt1 in mitosis suggests that one or more kinases activated at the G2/M transition negatively regulates Myt1 activity. Kinases shown to phosphorylate Myt1 include cdc2, p90RSK, Akt, and Plk1. Wee1 is inactivated upon mitotic entry by phosphorylation at Ser53 and Ser123 by Plk1 and cdc2, followed by beta-TrCP-mediated ubiquitination and degradation.

Product:

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

Molecular Weight:

~ 72 kDa

Swiss-Prot:

P30291

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

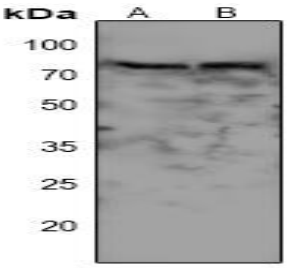
Storage&Stability:

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

Specificity:

WEE1 (Phospho-S642) polyclonal antibody detects endogenous levels of WEE1 protein only when phosphorylated at Ser642.

DATA:



Western blot (WB) analysis of WEE1 (Phospho-S642) polyclonal antibody at 1:500 dilution

LaneA:The Brain tissue lysate of Mouse

LaneB:The Brain tissue lysate of Rat

Note:

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

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