

Wee1 polyclonal antibody

Catalog: BCP01720

Host: Rabbit

Reactivity: Human,Rat,Mouse

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:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 80 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

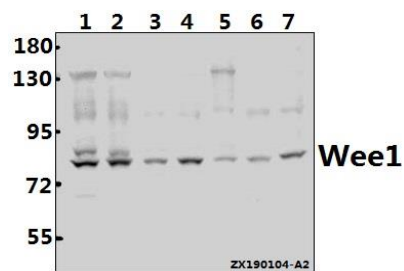
Storage&Stability:

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

Specificity:

Wee1 polyclonal antibody detects endogenous levels of Wee1 protein.

DATA:



Western blot (WB) analysis of Wee1 polyclonal antibody at 1:500 dilution

Lane1:Myla2059 whole cell lysate(40ug)

Lane2:MCF-7 whole cell lysate(40ug)

Lane3:Beas-2B whole cell lysate(40ug)

Lane4:Hela whole cell lysate(40ug)

Lane5:HuT78 whole cell lysate(40ug)

Lane6:3T3-L1 whole cell lysate(40ug)

Lane7:C6 whole cell lysate(40ug)

Note:

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