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Wee1

Reactivity: Human

Tested applications:WB IHC

Recommended Dilution:WB 1:200 - 1:500 IHC 1:50 - 1:100

Calculated MW:72kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human Wee1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

WEE1;DKFZp686I18166;FLJ16446;WEE1A;WEE1hu

Catalog #:A0178

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:7465

Isotype: IgG

Swiss Prot:P30291

Purity: Affinity purification

For research use only.

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 (1,2). 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 (1,3,4). 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 (5-8).Wee1 is inactivated upon mitotic entry by phosphorylation at Ser53 and Ser123 by Plk1 and cdc2, followed by beta-TrCP-mediated ubiquitination and degradation (1,9,10).

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