Product Name: Wee 1 (phospho Ser53) Rabbit

Polyclonal Antibody Catalog #: APRab05630



Summary

Production Name Wee 1 (phospho Ser53) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application IHC,ELISA

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name WEE1

Alternative Names WEE1; Wee1-like protein kinase; WEE1hu; Wee1A kinase

Gene ID 7465.0

P30291.The antiserum was produced against synthesized peptide derived from human SwissProt ID

WEE1 around the phosphorylation site of Ser53. AA range:19-68

Application

Dilution Ratio IHC 1:100 - 1:300. ELISA: 1:20000...

Molecular Weight

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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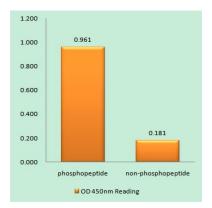
Background

WEE1 G2 checkpoint kinase(WEE1) Homo sapiens This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a [protein]-Ltyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation: Synthesis is increased during S and G2 phases, presumably by an increase in transcription; activity is decreased by phosphorylation during m phase. Protein levels fall in M phase as a result of decreased synthesis combined with degradation. Activity seems to be negatively regulated by phosphorylation upon entry into mitosis, although N-terminal phosphorylation might also regulate the protein stability via protection from proteolysis or might regulate the subcellular location, function: May act as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDC2 before the onset of mitosis. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation. Specifically phosphorylates and inactivates cyclin B1-complexed CDC2 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDC2 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDC2 does not occur., PTM: Phosphorylated during M and G1 phases. Also autophosphorylated., PTM: Ubiquitinated and degraded at the onset of G2/M phase, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family, WEE1 subfamily., similarity: Contains 1 protein kinase domain.,

Research Area

Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;

Image Data



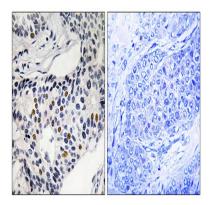
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using WEE1 (Phospho-Ser53) Antibody

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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using WEE1 (Phospho-Ser53) Antibody.

The picture on the right is blocked with the phospho peptide.

Note

For research use only.

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