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-P,IF-P,IF-F,ICC/IF,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 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-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200

Molecular Weight

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

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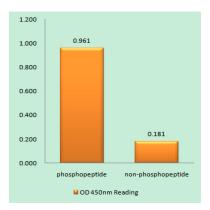
Background

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



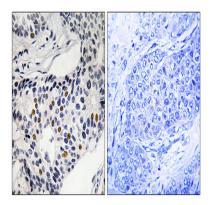
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using WEE1 (Phospho-Ser53) Antibody

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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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