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Wee1(S123) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22278a

Specification

Wee1(S123) Antibody - Product Information

Application	**WB,E**
Primary Accession	P30291
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**71597**

Wee1(S123) Antibody - Additional Information

Gene ID 7465

Other Names
Wee1-like protein kinase, WEE1hu, 2.7.10.2, Wee1A kinase, WEE1

Target/Specificity
This Wee1(S123) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 96-130 amino acids from human Wee1.

Dilution
WB~~1:2000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Wee1(S123) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Wee1(S123) Antibody - Protein Information

Name WEE1

Function Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase.

Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. 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.

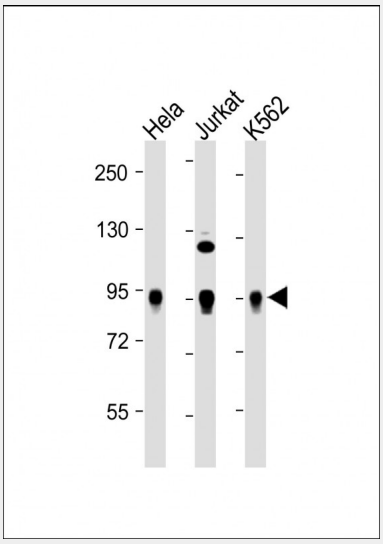
Cellular Location
Nucleus.

Wee1(S123) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Wee1(S123) Antibody - Images



All lanes : Anti-Wee1(S123) Antibody at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 72 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Wee1(S123) Antibody - Background

Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. 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.

Wee1(S123) Antibody - References

Watanabe N.,et al.EMBO J. 14:1878-1891(1995).
Cichutek A.,et al.Cytogenet. Cell Genet. 93:277-283(2001).
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Taylor T.D.,et al.Nature 440:497-500(2006).
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