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Wee1 Blocking Peptide
Catalog # PBV10051b

Specification

Wee1 Blocking Peptide - Product Information

Primary Accession	P47810
Gene ID	22390
Calculated MW	71578

Wee1 Blocking Peptide - Additional Information

Gene ID 22390

Application & Usage	**The peptide is used for blocking the antibody activity of active Wee1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30 minutes at 37°C**

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

Target/Specificity
Wee1

Formulation
50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 0.1% BSA and 0.02% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Wee1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Wee1 Blocking Peptide - 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 (By similarity).

Cellular Location
Nucleus.

Wee1 Blocking Peptide - 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 Blocking Peptide - Images