

Wee1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10096**Specification**

Wee1 Antibody - Product Information

Application	WB
Primary Accession	P47810
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71578

Wee1 Antibody - Additional Information**Gene ID** 22390**Application & Usage**

Western blot analysis (0.5-4 µg/ml) and in immunoprecipitation (5-10 µg/ml). However, the optimal conditions should be determined individually. The affinity-purified rabbit antibody recognizes Wee1 protein from human, mouse and rat samples. Mouse small intestine tissue lysate can be used as a positive control

Other Names

WEE1hu, Wee1A kinase, DKFZp686I18166, FLJ16446, EC 2.7.10.2

Target/Specificity

Wee1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity-purified rabbit anti-Wee1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Wee1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Wee1 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

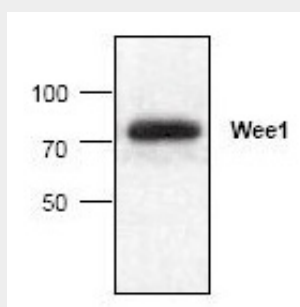
Nucleus {ECO:0000250|UniProtKB:P30291}.

Wee1 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 Cytometry](#)
- [Cell Culture](#)

Wee1 Antibody - Images



Western blot analysis of Wee 1 expression in mouse small intestine tissue lysate.

Wee1 Antibody - Background

Wee1 is a nuclear tyrosine protein kinase. The protein plays a role in suppressing eukaryotes' entry into mitosis by inactivating cdc2 kinase by inhibiting tyrosine phosphorylation. The predicted molecular weight of the kinase is 72 kDa. The kinase possesses tyrosine kinase activity, but

structurally belongs to the serine/threonine protein kinase family.