

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

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**Wee1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P47810</a>
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.

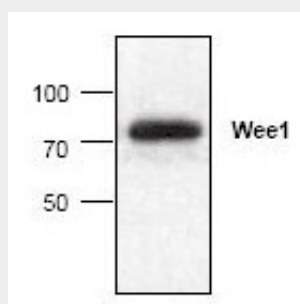
**Cellular Location**

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.