

# Anti-WEE1 (pS642) Antibody

Rabbit polyclonal antibody to WEE1 (pS642) Catalog # AP61084

## **Product Information**

| Application       | WB                |
|-------------------|-------------------|
| Primary Accession | <u>P30291</u>     |
| Other Accession   | <u>P47810</u>     |
| Reactivity        | Human, Mouse, Rat |
| Host              | Rabbit            |
| Clonality         | Polyclonal        |
| Calculated MW     | 71597             |

## **Additional Information**

| Gene ID            | 7465  |
|--------------------|---|
| Other Names        | Wee1-like protein kinase; WEE1hu; Wee1A kinase  |
| Target/Specificity | Recognizes endogenous levels of WEE1 (pS642) protein.   |
| Dilution           | WB~~WB (1/500 - 1/1000)   |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt   |

#### **Protein Information**

| Name     | WEE1 {ECO:0000303 PubMed:8348613, ECO:0000312 HGNC:HGNC:12761}   |
|----------|--|
| Function | Acts as a negative regulator of entry into mitosis (G2 to M transition) by<br>protecting the nucleus from cytoplasmically activated cyclin B1-complexed<br>CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on<br>'Tyr-15' (PubMed: <u>15070733</u> , PubMed: <u>7743995</u> , PubMed: <u>8348613</u> ,<br>PubMed: <u>8428596</u> ). Specifically phosphorylates and inactivates cyclin<br>B1-complexed CDK1 reaching a maximum during G2 phase and a minimum<br>as cells enter M phase (PubMed: <u>7743995</u> , PubMed: <u>8348613</u> ,<br>PubMed: <u>8428596</u> ). Phosphorylation of cyclin B1-CDK1 occurs exclusively on<br>'Tyr-15' and phosphorylation of monomeric CDK1 does not occur<br>(PubMed: <u>7743995</u> , PubMed: <u>8348613</u> , PubMed: <u>8428596</u> ). Its activity increases<br>during S and G2 phases and decreases at M phase when it is<br>hyperphosphorylated (PubMed: <u>7743995</u> ). A correlated decrease in protein<br>level occurs at M/G1 phase, probably due to its degradation<br>(PubMed: <u>7743995</u> ). |

## Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human WEE1. The exact sequence is proprietary.

### Images



Western blot analysis of WEE1 (pS642) expression in mouse brain (A), rat brain (B) whole cell lysates.

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