

WEE1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5256**Specification**

WEE1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P30291
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=72 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

WEE1 Antibody (Center) - Additional Information**Gene ID** 7465**Antigen Region**
144-173**Other Names**
WEE1; Wee1-like protein kinase; Wee1A kinase**Dilution**
WB~~ 1:1000**Target/Specificity**
This WEE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-173 amino acids from the Central region of human WEE1.**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 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.**WEE1 Antibody (Center) - 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 protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15' (PubMed:15070733, PubMed:7743995, PubMed:8348613, PubMed:8428596). Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase (PubMed:7743995, PubMed:8348613, PubMed:8428596). Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur (PubMed:7743995, PubMed:8348613, PubMed:8428596). Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated (PubMed:7743995). A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation (PubMed:7743995).

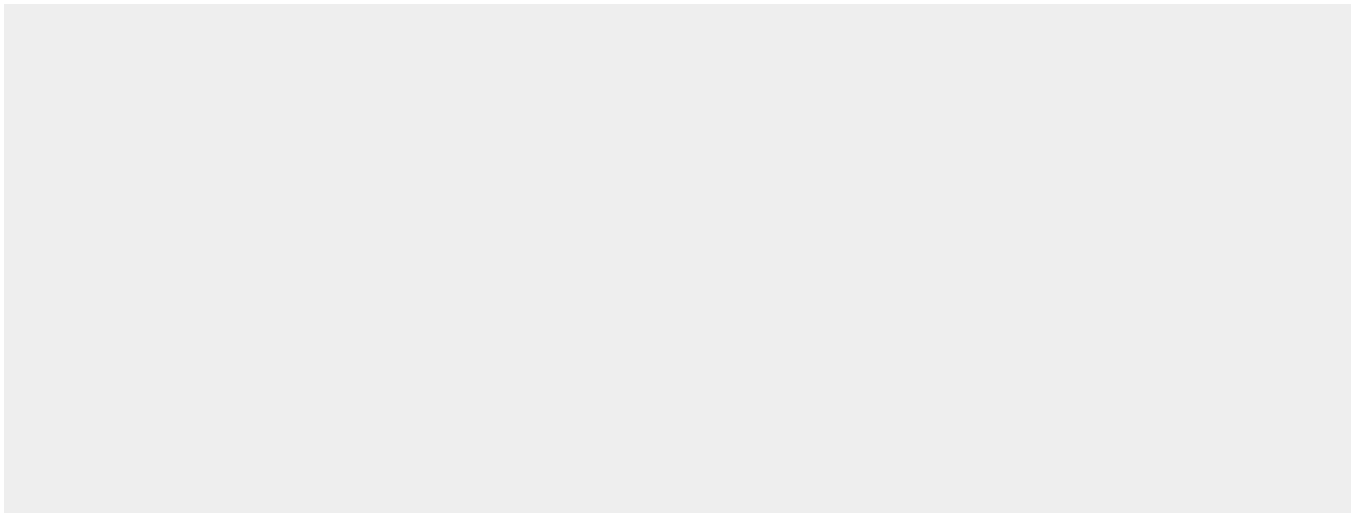
Cellular Location

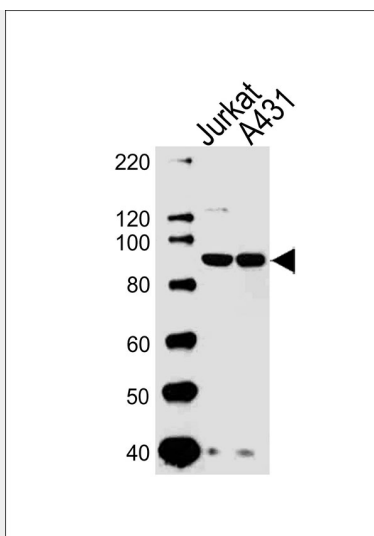
Nucleus.

WEE1 Antibody (Center) - 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 (Center) - Images



Western blot analysis of lysates from Jurkat,A431 cell line (from left to right), using WEE1 Antibody (A159)(Cat. #AW5256). AW5256 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

WEE1 Antibody (Center) - Background

WEE1 is a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase.

WEE1 Antibody (Center) - References

- Kawasaki, H., et al., *Oncogene* 22(44):6839-6844 (2003).
- Hashimoto, O., et al., *Mol. Carcinog.* 36(4):171-182 (2003).
- Yuan, H., et al., *J. Virol.* 77(3):2063-2070 (2003).
- Masaki, T., et al., *Hepatology* 37(3):534-543 (2003).
- de Noronha, C.M., et al., *Science* 294(5544):1105-1108 (2001).