

Mouse Wee1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19012C**Specification**

Mouse Wee1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P47810
Other Accession	Q63802 , NP_033542.2
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71578
Antigen Region	202-230

Mouse Wee1 Antibody (Center) - Additional Information**Gene ID** 22390**Other Names**

Wee1-like protein kinase, Wee1A kinase, Wee1

Target/Specificity

This Mouse Wee1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 202-230 amino acids from the Central region of mouse Wee1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

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

Mouse Wee1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Wee1 Antibody (Center) - 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

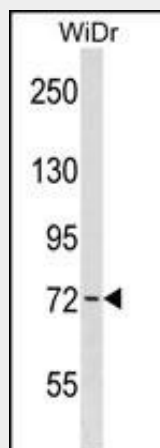
Nucleus {ECO:0000250|UniProtKB:P30291}.

Mouse 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](#)

Mouse Wee1 Antibody (Center) - Images



Mouse Wee1 Antibody (Center) (Cat. #AP19012c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the Wee1 antibody detected the Wee1 protein (arrow).

Mouse Wee1 Antibody (Center) - Background

Wee1 may act 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. 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. 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 (By similarity).

Mouse Wee1 Antibody (Center) - References

Muller, M., et al. J. Cell. Sci. 123 (PT 2), 286-294 (2010) :
Kim, M.J., et al. Oncol. Rep. 19(5):1323-1329(2008)
Tanaka, Y., et al. Biochem. Biophys. Res. Commun. 352(1):21-28(2007)
Tominaga, Y., et al. Int. J. Biol. Sci. 2(4):161-170(2006)
Park, C.E., et al. Cells Tissues Organs (Print) 177(4):221-228(2004)