10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

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.

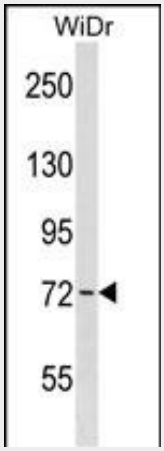
Cellular Location
Nucleus {ECO:0000250|UniProtKB:P30291}.

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 Cytomety
- 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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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)