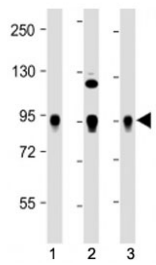
Wee1 Antibody (F54097)

Catalog No.	Formulation	Size
F54097-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54097-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P30291
Applications	Western Blot : 1:2000
Limitations	This Wee1 antibody is available for research use only.



Western blot testing of Wee1 antibody at 1:2000: Lane 1) human HeLa, 2) Jurkat and 3) K562 cell lysate. Predicted molecular weight ~72 kDa.

Description

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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the Wee1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 96-130 from human Wee1 was used as the immunogen for the Wee1 antibody.

Storage

Aliquot the Wee1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.