Wee1(Phospho-Ser123) Antibody HRP Conjugated

Catalog No: #C05615H

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Description

Product Name	Wee1(Phospho-Ser123) Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	WB IHC-P
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic phosphopeptide aa 100-150 646 derived from human Wee1 around the phosphorylation site of Ser123 [SS(p-S)PV]
Conjugates	HRP
Target Name	Wee1 Ser123
Other Names	WEE1A; WEE1hu; Wee1-like protein kinase; Wee1A kinase; WEE1
Accession No.	Swiss-Prot#P30291NCBI Gene ID7465
Cell Localization	Nucleus
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% Gentamicin.
Storage	Store at 4C for 12 months.

Application Details

Western blotting: 1:100-1000Immunohistochemistry1:100-500

Background

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.