Revision 3

64728 Store at +4C

Wee1 (D10D2) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P30291	Entrez-Gene Id: 7465
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot that antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Wee1 (D10D2) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Wee1 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Wee1 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Wee1 (D10D2) Rabbit mAb #13084.			
Background		Entry of all eukaryotic cells into mitosis is regulated by activation of cdc2 kinase. The critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of Tyr15 and Thr14 (1,2). Phosphorylation at Tyr15 and Thr14 and inhibition of cdc2 is carried out by Wee1 and Myt1 protein kinases, while Tyr15 dephosphorylation and activation of cdc2 is carried out by the cdc25 phosphatase (1,3,4). Hyperphosphorylation and inactivation of Myt1 in mitosis suggests that one or more kinases activated at the G2/M transition negatively regulates Myt1 activity. Kinases shown to phosphorylate Myt1 include cdc2, p90RSK, Akt, and Plk1 (5-7).			
Background References		1. Watanabe, N. et al. (1995) <i>EMBO J.</i> 14, 1878-1891. 2. Hunter, T. (1995) <i>Cell</i> 80, 225-236. 3. Galaktionov, K. et al. (1995) <i>Genes Dev</i> 9, 1046-58. 4. McGowan, C.H. and Russell, P. (1993) <i>EMBO J</i> 12, 75-85. 5. Booher, R.N. et al. (1997) <i>J Biol Chem</i> 272, 22300-6. 6. Palmer, A. et al. (1998) <i>EMBO J</i> 17, 5037-47. 7. Nakajima, H. et al. (2003) <i>J Biol Chem</i> 278, 25277-80.			
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey			
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			

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