

Novel function of the S phase regulator Dfp1

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Understanding voltage regulators

Requirement for tyrosine phosphorylation of Cdk4 in G1 arrest induced by ultraviolet irradiation.

Regulation of Initiation of S Phase, Replication Checkpoint Signaling, and Maintenance of Mitotic Chromosome Structures during S Phase by Hsk1 Kinase in the Fission Yeast

Mol Biol Cell 16, 1651-1660.

AVR Guide: Phases and Phase Regulation

This helps to explain why even overexpression of Cdc18 and Cdt1 or modulation of CDK levels, which affects initiation, does not lead to extensive replication. Cells were imaged after conjugation to fluorescent azide. Similar control mechanisms function after meiS, where inhibition of Cdk1 by stabilization of the Sic1 CDK inhibitor allows rereplication before MI.

Ibp1p, a novel Cdc25

This signal is reduced to two puncta at the MI division, which completely disappear following MII ;. What, then, is causing this apparent mitotic defect? Ribonucleotide reductase activity is coupled to DNA synthesis via proliferating cell nuclear antigen.

AVR Guide: Phases and Phase Regulation

Replication checkpoint requires phosphorylation of the phosphatase Cdc25 by Cds1 or Chk1.

Understanding voltage regulators

Dfp1 protein upper panel, Chk1 protein middle panel; HA-tagged, or Hsk1 protein lower panel was detected by Western blotting. Chromosome segregation defects in Dfp1 C-terminal truncation mutants. Importantly, the meiotic phenotype of dfp1-r35 suggests that disruption in prDSB formation is not its only defect, because rec12Δ mutants, which are completely defective for prDSB formation, nevertheless complete both meiotic

divisions in with a normal timing and transcriptional program. Analyses of a newly isolated temperature-sensitive mutant, hsk1-89, reveal that Hsk1 plays crucial roles in DNA replication checkpoint signaling and maintenance of proper chromatin structures during mitotic S phase through regulating the functions of Rad3 ATM -Cds1 and Rad21 cohesin , respectively, in addition to expected essential roles for initiation of mitotic DNA replication through phosphorylating Cdc19 Mcm2.

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