CDK1 phosphorylates CDCA5 (Sororin) at centromeres

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references


Reactome database release: 78

This document contains 1 reaction (see Table of Contents)
CDK1 phosphorylates CDCA5 (Sororin) at centromeres

**Stable identifier:** R-HSA-2468287

**Type:** transition

**Compartments:** chromosome, centromeric region, cytosol

Phosphorylation of CDCA5 (Sororin) coincides with dissociation of CDCA5 from chromosomal arms in prometaphase, but phosphorylated CDCA5 persists on centromeres throughout prophase and metaphase. Several serine and threonine residues in CDCA5 are phosphorylated by CDK1 in prometaphase, but only the three sites that perfectly match the CDK1 consensus phosphorylation sequence are shown here - serines S21 and S75 and threonine T159 (Drier et al. 2011, Zhang et al. 2011).

**Literature references**


**Editions**

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<th>Reviewer</th>
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