

Association of Cyclin A:Cdk2 with Cdh1

Castro, A., Lorca, T., Matthews, L., Peters, JM.

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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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

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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
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Reactome database release: 88

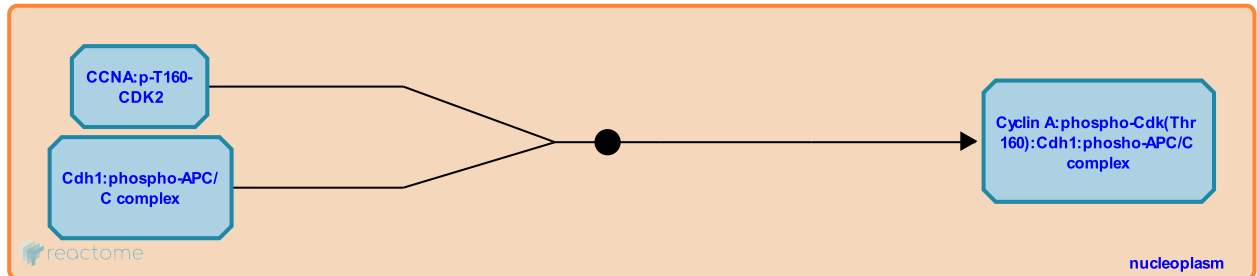
This document contains 1 reaction ([see Table of Contents](#))

Association of Cyclin A:Cdk2 with Cdh1 [↗](#)

Stable identifier: R-HSA-188371

Type: binding

Compartments: nucleoplasm



Cyclin A-Cdk2 prevents unscheduled APC reactivation during S phase by binding and subsequently phosphorylating Cdh1. Phosphorylation-dependent dissociation of the Cdh1-activating subunit inhibits the APC/C.

Literature references

Lukas, J., Peters, JM., Kramer, ER., Sorensen, CS., Lukas, C. (2001). A conserved cyclin-binding domain determines functional interplay between anaphase-promoting complex-Cdh1 and cyclin A-Cdk2 during cell cycle progression. *Mol Cell Biol*, 21, 3692-703. [↗](#)

Editions

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