

# Ubiquitination of Cyclin B by phospho- APC/C:Cdc20 complex

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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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Reactome database release: 88

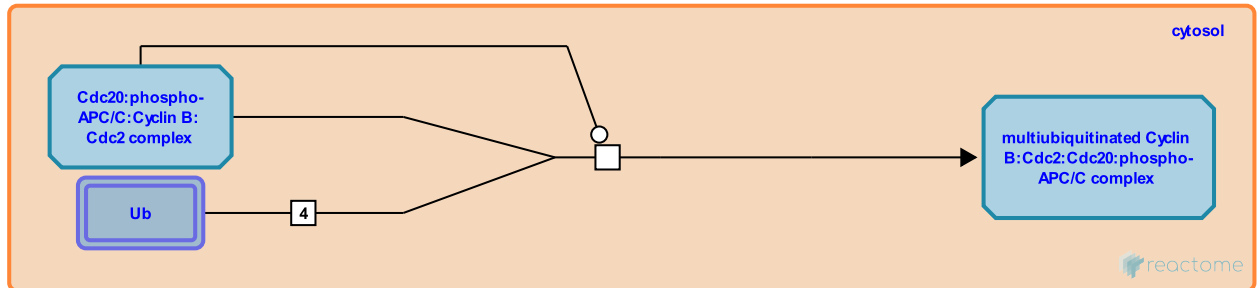
This document contains 1 reaction ([see Table of Contents](#))

## Ubiquitination of Cyclin B by phospho-APC/C:Cdc20 complex [↗](#)

**Stable identifier:** R-HSA-174227

**Type:** transition

**Compartments:** cytosol



At the beginning of this reaction, 1 molecule of 'Cdc20:phospho-APC/C:Cyclin B:Cdc2 complex', and 3 molecules of 'ubiquitin' are present. At the end of this reaction, 1 molecule of 'multiubiquitinated Cyclin B:Cdc2:Cdc20:phospho-APC/C complex' is present.

This reaction takes place in the 'cytosol' and is mediated by the 'ubiquitin-protein ligase activity' of 'Cdc20:Phospho-APC/C'.

### Literature references

Peters, JM., Gannon, J., Geley, S., Kramer, E., Gieffers, C., Hunt, T. (2001). Anaphase-promoting complex/cyclosome-dependent proteolysis of human cyclin A starts at the beginning of mitosis and is not subject to the spindle assembly checkpoint. *J Cell Biol*, 153, 137-48. [↗](#)

### Editions

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