

Degradation of multiubiquitinated cell cycle proteins

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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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

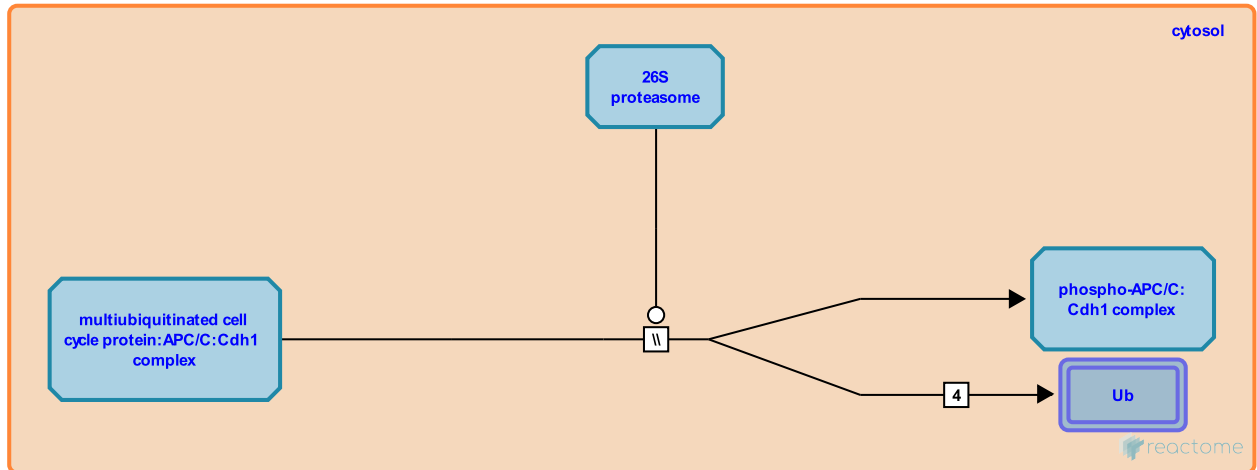
This document contains 1 reaction ([see Table of Contents](#))

Degradation of multiubiquitinated cell cycle proteins [↗](#)

Stable identifier: R-HSA-174105

Type: omitted

Compartments: cytosol



Cell cycle proteins multubiquitinated by the APC/C are targeted for degradation by the 26S proteasome.

Literature references

Lorca, T., Bernis, C., Vigneron, S., Castro, A., Labbe, JC. (2005). The anaphase-promoting complex: a key factor in the regulation of cell cycle. *Oncogene*, 24, 314-25. [↗](#)

Kirschner, MW., Rape, M., Reddy, SK. (2006). The processivity of multiubiquitination by the APC determines the order of substrate degradation. *Cell*, 124, 89-103. [↗](#)

Editions

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