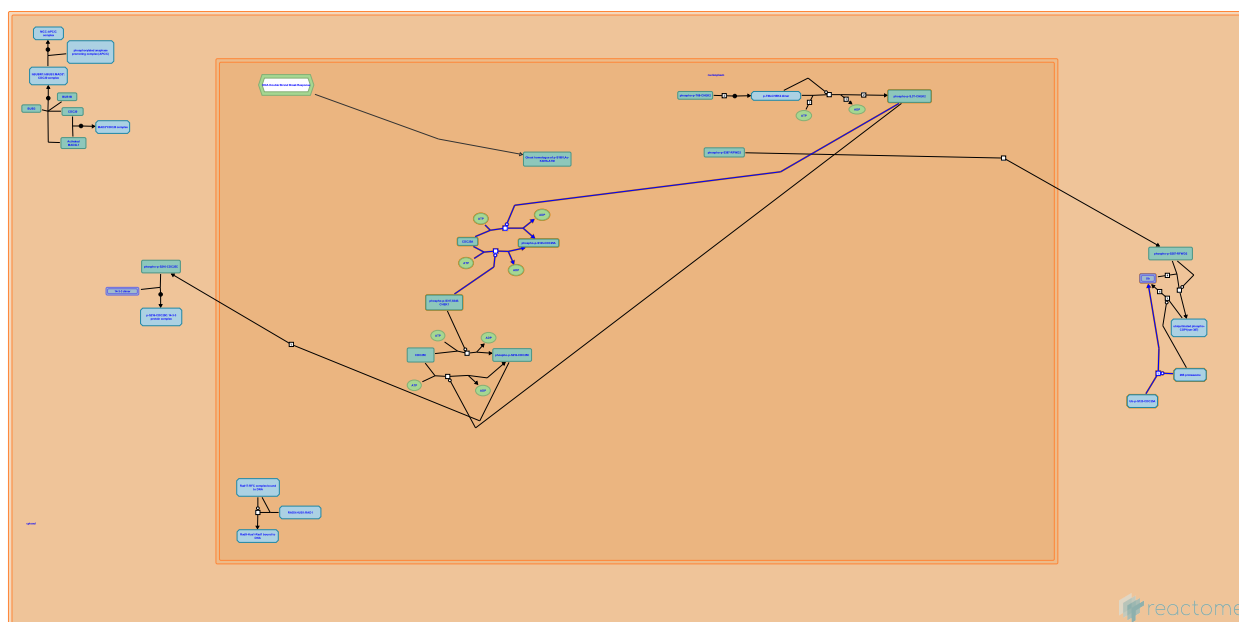


Ubiquitin Mediated Degradation of Phosphorylated Cdc25A



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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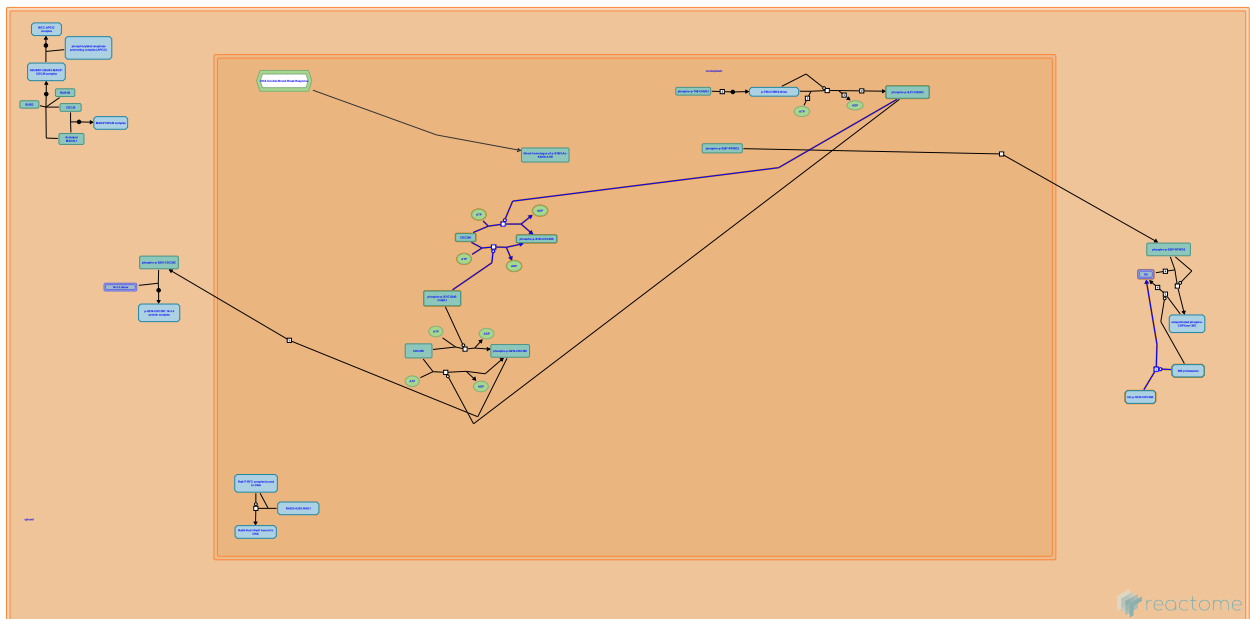
Reactome database release: 70

This document contains 1 pathway and 3 reactions ([see Table of Contents](#))

Ubiquitin Mediated Degradation of Phosphorylated Cdc25A [↗](#)

Stable identifier: R-DDI-69601

Inferred from: [Ubiquitin Mediated Degradation of Phosphorylated Cdc25A \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Phosphorylation of Cdc25A at Ser-123 by Chk2 ↗

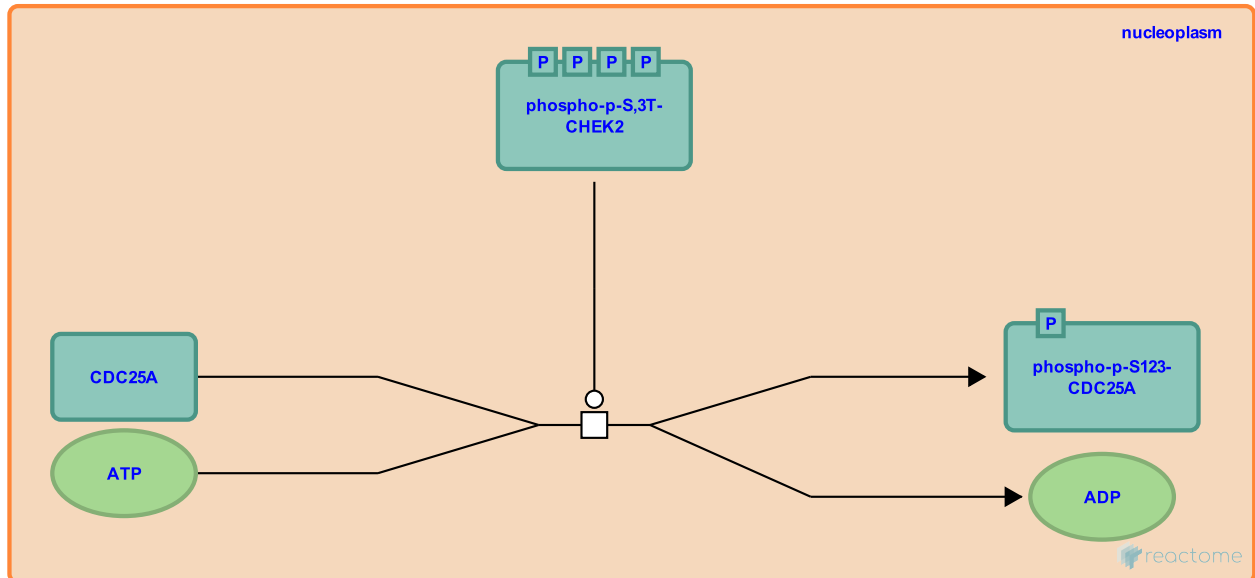
Location: Ubiquitin Mediated Degradation of Phosphorylated Cdc25A

Stable identifier: R-DDI-69608

Type: transition

Compartments: nucleoplasm

Inferred from: Phosphorylation of Cdc25A at Ser-123 by Chk2 (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Proteolytic degradation of ubiquitinated-Cdc25A ↗

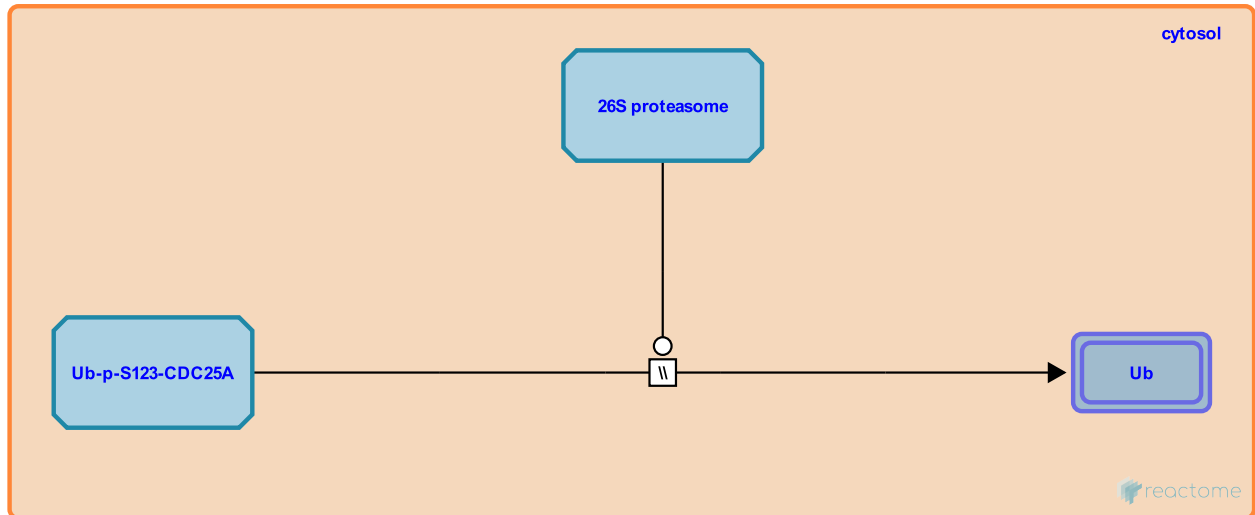
Location: Ubiquitin Mediated Degradation of Phosphorylated Cdc25A

Stable identifier: R-DDI-69600

Type: omitted

Compartments: cytosol

Inferred from: Proteolytic degradation of ubiquitinated-Cdc25A (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

Phosphorylation of Cdc25A at Ser-123 by Chk1 [↗](#)

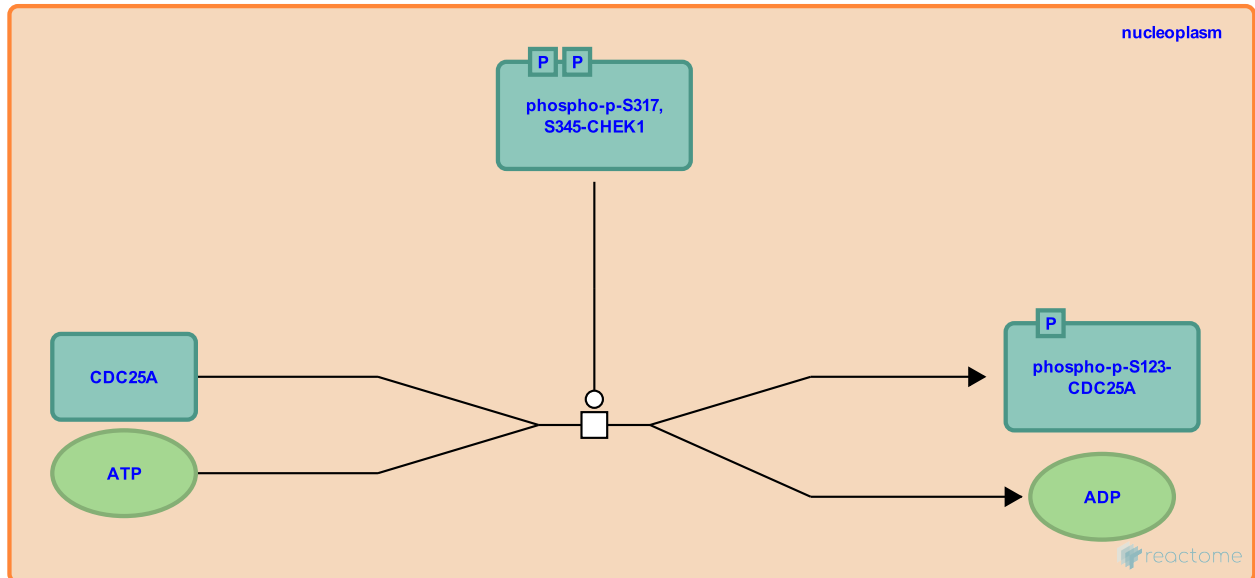
Location: Ubiquitin Mediated Degradation of Phosphorylated Cdc25A

Stable identifier: R-DDI-69604

Type: transition

Compartments: nucleoplasm

Inferred from: Phosphorylation of Cdc25A at Ser-123 by Chk1 (Homo sapiens)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](/electronic_inference_compara.html) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

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