

POM121 and NDC1 bind the Nup93 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: 82

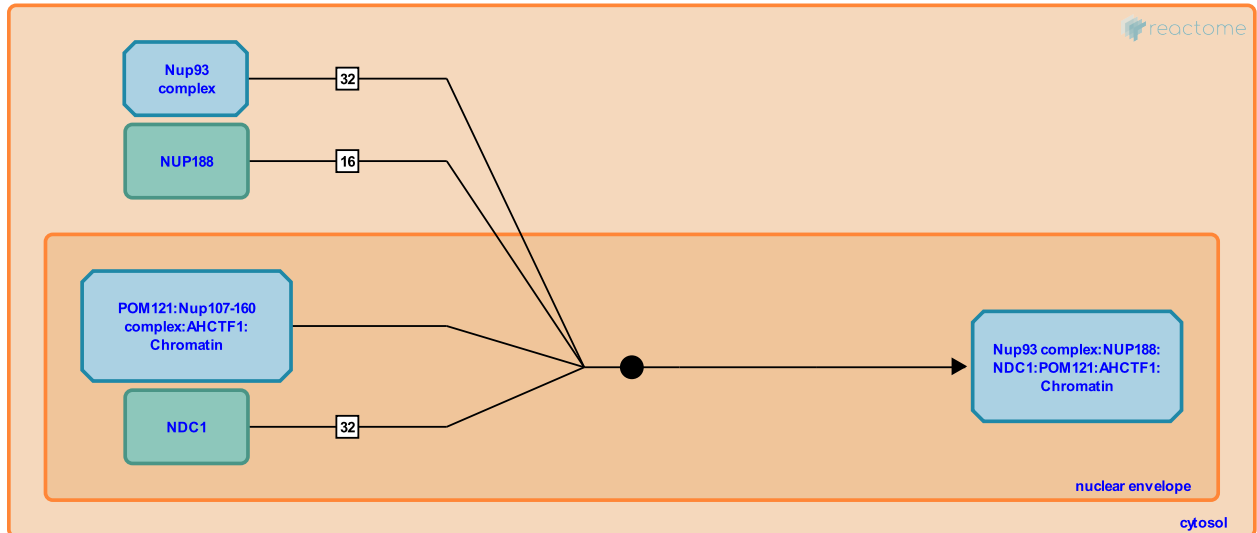
This document contains 1 reaction ([see Table of Contents](#))

POM121 and NDC1 bind the Nup93 complex [↗](#)

Stable identifier: R-HSA-9634169

Type: binding

Compartments: cytosol, nuclear envelope



From studies with *Xenopus* and human model systems, the transmembrane nucleoporins POM121 and NDC1 recruit the NUP93 complex to nascent nuclear pore complexes (NPCs) due to interaction with the NUP93 complex components NUP155 (Mitchell et al. 2010) and, potentially, NUP35 (Mansfield et al. 2006). This is consistent with order-of-assembly seen in live cell imaging (Dultz et al. 2008).

Literature references

Capitanio, J., Mitchell, JM., Wozniak, RW., Mansfeld, J., Kutay, U. (2010). Pom121 links two essential subcomplexes of the nuclear pore complex core to the membrane. *J. Cell Biol.*, 191, 505-21. [↗](#)

Editions

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