

RANBP2 SUMOylates MDM2 with SUM01

May, B., Niskanen, E.

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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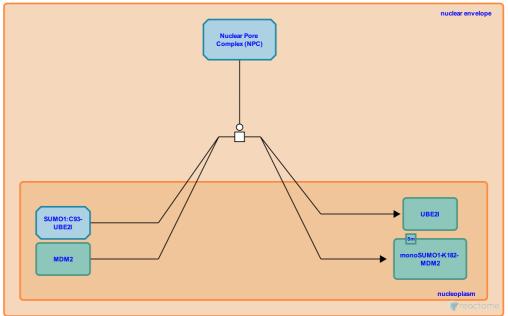
This document contains 1 reaction (see Table of Contents)

RANBP2 SUMOylates MDM2 with SUMO1 ↗

Stable identifier: R-HSA-5228523

Type: transition

Compartments: nucleoplasm, nuclear envelope



RANBP2 of the nuclear pore complex SUMOylates MDM2 with SUMO1 at lysine-182 (Mayauchi et al. 2002). An unSUMOylatable mutant of MDM2 accumulates in the cytosol so SUMOylation may be part of the process of nuclear import of MDM2 (Miyauchi et al. 2002).

Literature references

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Editions

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