

Uncleaved Pink1 accumulates in damaged mitochondria

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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

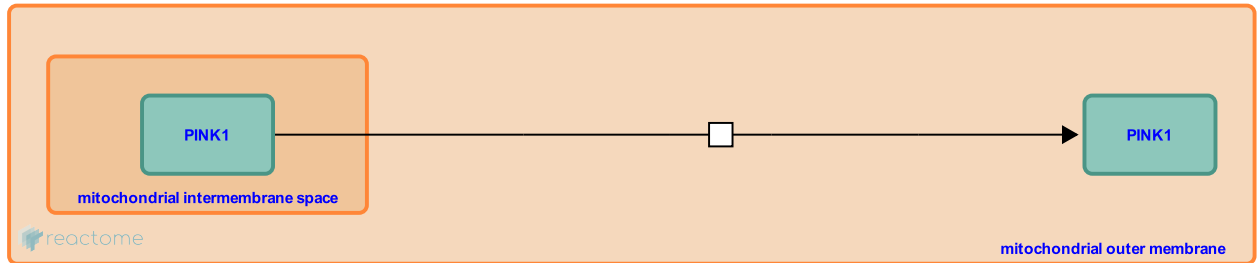
This document contains 1 reaction ([see Table of Contents](#))

Uncleaved Pink1 accumulates in damaged mitochondria [↗](#)

Stable identifier: R-HSA-5205672

Type: transition

Compartments: mitochondrial outer membrane



On damaged mitochondria that have lost their membrane potential, however, PINK1 cleavage is inhibited, leading to high PINK1 protein accumulation on the inner leaf of the mitochondrial outer membrane (MOM) of dysfunctional mitochondria. Full-length mitochondrial PINK1 is the active form in the PINK1/Parkin pathway.

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Editions

2013-11-21	Authored	Gillespie, ME.
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