

p-T182 MAPKAPK5 phosphorylates FOXO3

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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

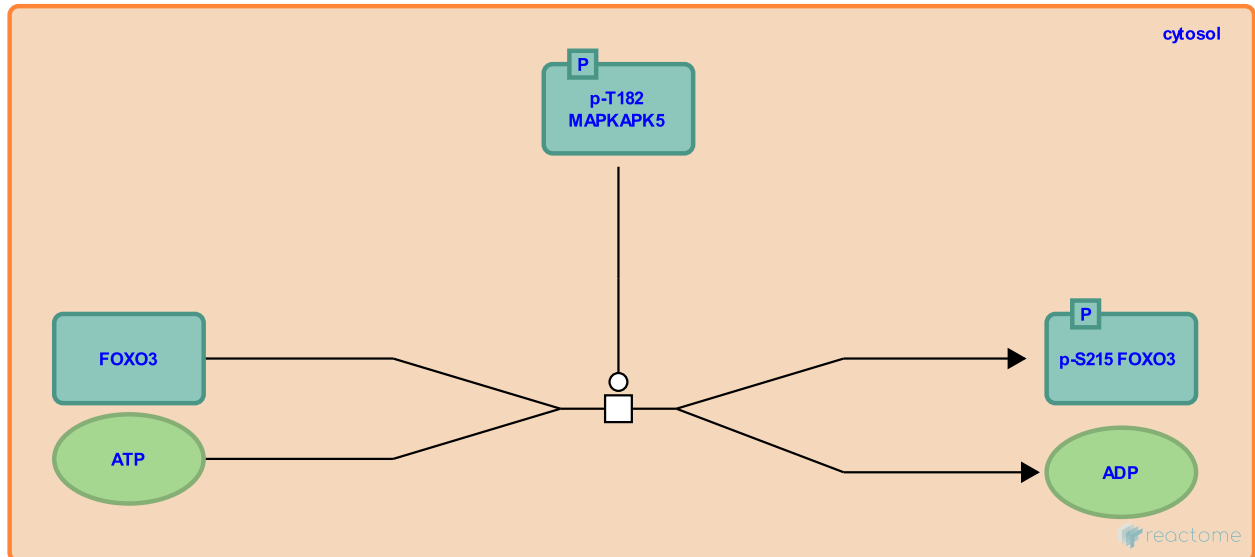
This document contains 1 reaction ([see Table of Contents](#))

p-T182 MAPKAPK5 phosphorylates FOXO3 [↗](#)

Stable identifier: R-HSA-5687101

Type: transition

Compartments: cytosol



Activated MAPKAPK5 phosphorylates FOXO3 at serine 215, promoting its activation and translocation to the nucleus. In the nucleus, FOXO3 promotes the expression of miR-34B and C, which in turn represses translation of MYC RNA (Kress et al, 2011; reviewed in Myant and Sansom, 2011; Kostenko et al, 2012).

Literature references

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Editions

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|------------|----------|--------------------------------------|
| 2015-03-30 | Authored | Rothfels, K. |
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