mTORC1 phosphorylation of RPS6KB1 (S6K)

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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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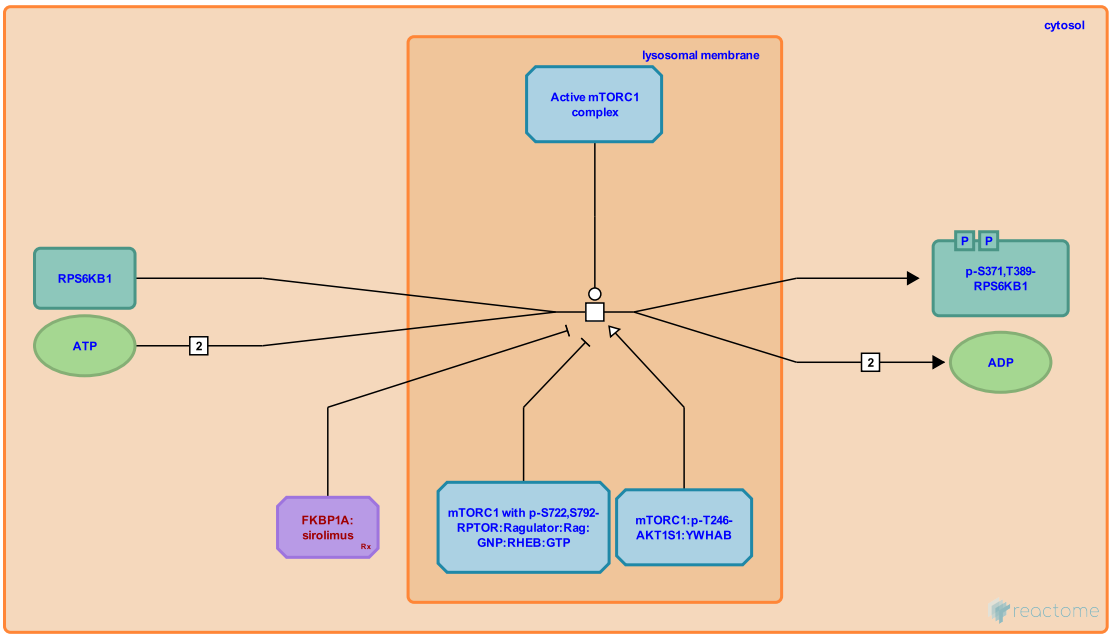
Stable identifier: R-HSA-165718

Type: transition

Compartments: lysosomal membrane, cytosol



RPS6KB1 (S6K1) contains a TOS motif. mTORC1 requires an intact TOS motif to bind and phosphorylate S6K1 (Ali & Sabatini 2005).

Literature references

Ali, SM., Sabatini, DM. (2005). Structure of S6 kinase 1 determines whether raptor-mTOR or rictor-mTOR. *J Biol Chem , 280*, 19445-8.

Editions

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