

Activation of Rac1 by FARP2

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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: 70

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

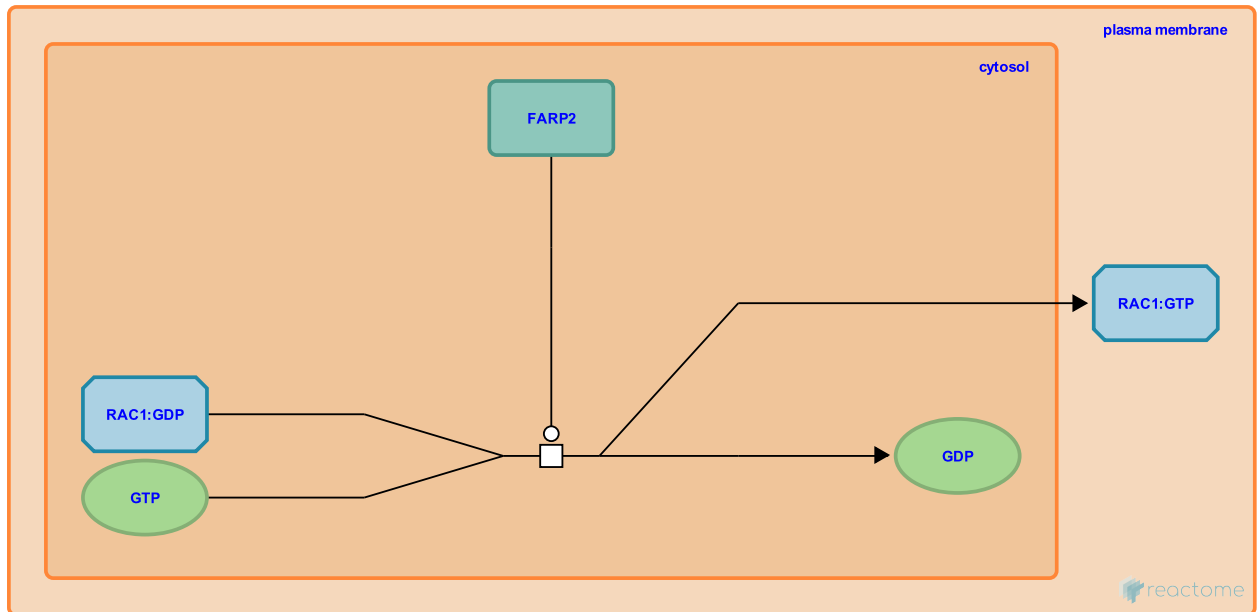
Activation of Rac1 by FARP2 ↗

Stable identifier: R-HSA-399938

Type: transition

Compartments: cytosol

Inferred from: [Activation of Rac1 by FARP2 \(Mus musculus\)](#)



Sema3A-mediated dissociation of FARP2 from Plexin-A is followed by activation of Rac1 by the GEF activity of released FARP2.

FARP2 is critical for Sema3A-mediated axonal repulsion through two independent downstream signaling pathways. Sema3A mediated disassociation of FARP2 from Plexin-A is followed by activation of Rac by GEF activity of released FARP2, binding of Rnd1 to plexin-A and down regulation of R-Ras by GAP activity of plexin-A.

Editions

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