RAS guanyl-nucleotide exchange mediated by SOS1 in complex with GRB2 and p-Y349,350-SHC1:p-ERBB4

Earp HS, 3rd., Harris, RC., Matthews, L., Misior, AM., Orlic-Milacic, M., Stern, DF., Zeng, F.
**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**


Reactome database release: 83

This document contains 1 reaction (see Table of Contents)
RAS guanyl-nucleotide exchange mediated by SOS1 in complex with GRB2 and p-Y349,350-SHC1:p-ERBB4

Stable identifier: R-HSA-1250383

Type: transition

Compartments: cytosol, plasma membrane

SOS1 in complex with GRB2 and p-Y349,350-SHC1:p-ERBB4 activates RAS by mediating guanyl nucleotide exchange, which results in the activation of RAF/MAP kinase cascade (Kainulainen et al. 2000).

Literature references


Editions

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