SHC1 mediates cytokine-induced phosphorylation of GAB2

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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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references


Reactome database release: 78

This document contains 1 reaction (see Table of Contents)
**SHC1 mediates cytokine-induced phosphorylation of GAB2**

**Stable identifier:** R-HSA-912527

**Type:** omitted

**Compartments:** plasma membrane

Binding of Gab2 to tyrosine phosphorylated Shc promotes the phosphorylation of Gab2 by an unknown kinase. Gab2 becomes tyrosine phosphorylated in response to IL-2 (Brockdorff et al. 2001) and IL-3 (Gu et al. 1998). Chimeric receptors were used to demonstrate that Shc is sufficient for Gab2 tyrosine phosphorylation. In response to IL-3, Grb2 was also required, reflecting that Gab2 is recruited to the activated cytokine receptor complex as a complex of Gab2:Grb2 (Gu et al. 2000).

**Literature references**


**Editions**

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