Interaction of Tie2 and Grb2

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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


Reactome database release: 83

This document contains 1 reaction (see Table of Contents)

https://reactome.org
Interaction of Tie2 and Grb2

Stable identifier: R-HSA-204871

Type: binding

Compartments: plasma membrane, cytosol

Tie2/Tek provide mitogenic signals to endothelial cells by promoting the association of Grb2 to one of their phosphotyrosines. Grb2 is an adaptor protein that has been linked to activation of Ras and mitogen activated protein kinase (MAPK) cell growth signaling pathways. Grb2 also binds to the Y1102 of the kinase domain of Tie2 with one of its SH2 doamins.

Literature references


Editions

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