Regulation of cortical dendrite branching

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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: 72

This document contains 1 pathway and 2 reactions (see Table of Contents)
Regulation of cortical dendrite branching

Stable identifier: R-HSA-8985801

Besides being involved in axon repulsion during neuronal system development, SLIT-ROBO signaling is also involved in dendrite branching. Based on studies in mice, SLIT1 triggers cortical dendrite branching by activating receptors ROBO1 and/or ROBO2. ROBO effector NCK2 is needed for SLIT1-mediated dendrite branching (Round and Sun 2011).

Literature references


Editions

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SLIT1 binds ROBO1, (ROBO2)

Location: Regulation of cortical dendrite branching

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