CBLL1 binds SRC-phosphorylated CDH1 complex

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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: 78

This document contains 1 reaction (see Table of Contents)
CBL-like E3 ubiquitin ligase Hakai (CBLL1) binds to SRC-phosphorylated E-cadherin (CDH1) complex bound to Listeria monocytogenes cell wall protein InlA (Bonazzi et al. 2008). SRC-mediated phosphorylation of CDH1 complex on tyrosine residues Y753 and Y754 of CDH1 and an unknown tyrosine of beta-catenin (CTNNB1) at cell-cell adhesion sites creates docking sites for CBLL1. CBLL1 functions as zinc (Zn2+) coordinated homodimer. While CBLL1 interacts simultaneously with CDH1 and CTNNB1, CTNND1 (p120 catenin) is displaced by CBLL1 binding (Fujita et al. 2002, Mukherjee et al. 2012).

Literature references


Editions

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