

Grb2 binds CD28

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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

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Reactome database release: 88

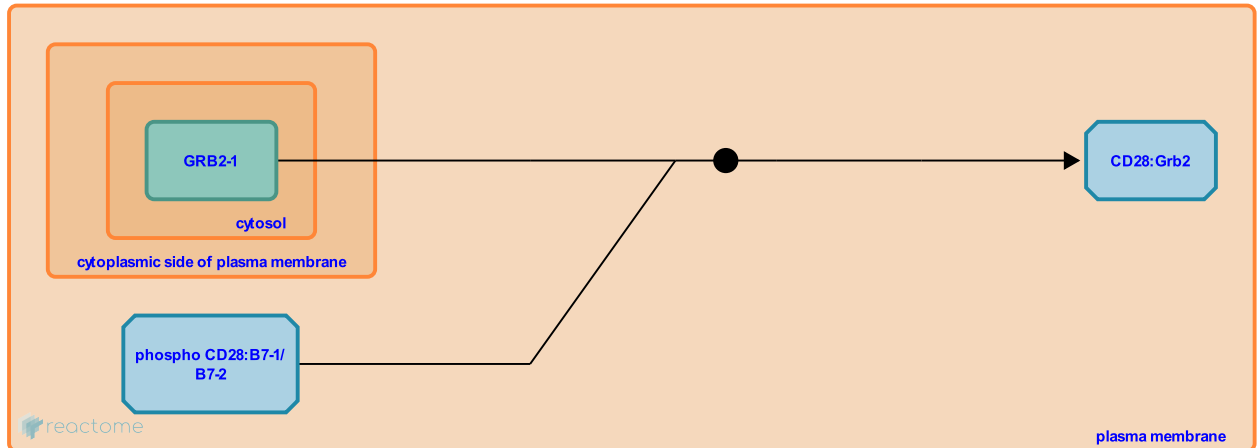
This document contains 1 reaction ([see Table of Contents](#))

Grb2 binds CD28 [↗](#)

Stable identifier: R-HSA-388814

Type: binding

Compartments: cytosol, plasma membrane



CD28 is capable of binding the Src homology 3 (SH3) domains of several proteins, including Grb2. The phospho-YMNM motif in CD28's cytoplasmic domain facilitates tandem SH2–SH3 domain binding. Grb-2 has been shown to bind to the CD28 YMNM motif with additional SH3 domain binding to the diproline motif in the C-terminal portion of the cytoplasmic domain of CD28.

Literature references

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Editions

2008-12-16	Authored, Edited	Garapati, P V.
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