

Dystroglycan binds NRXN1

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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](#))

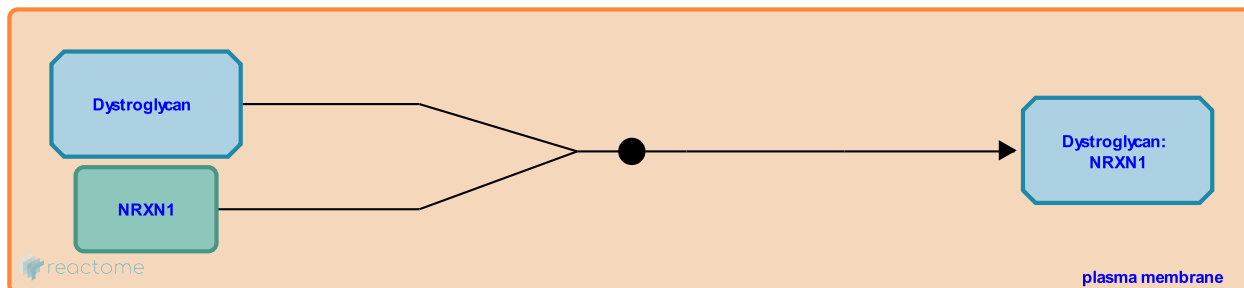
Dystroglycan binds NRXN1 [↗](#)

Stable identifier: R-HSA-2426263

Type: binding

Compartments: plasma membrane

Inferred from: [Dystroglycan binds Nrnx1 \(Rattus norvegicus\)](#)



Dystroglycan binds specifically to a subset of neurexin LNS domains in a tight interaction that requires the glycosylation of dystroglycan and is regulated by neurexin alternative splicing. Alpha-dystroglycan binds G domain-like sequences in neurexin-1-alpha (NRXN1) (Sugita et al. 2001).

Editions

2012-07-31	Authored	Jupe, S.
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