FZD recruits DVL to the receptor 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

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Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics, 33*, 3461-3467. ↗

Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res, 46*, D649-D655. ↗

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Reactome database release: 88

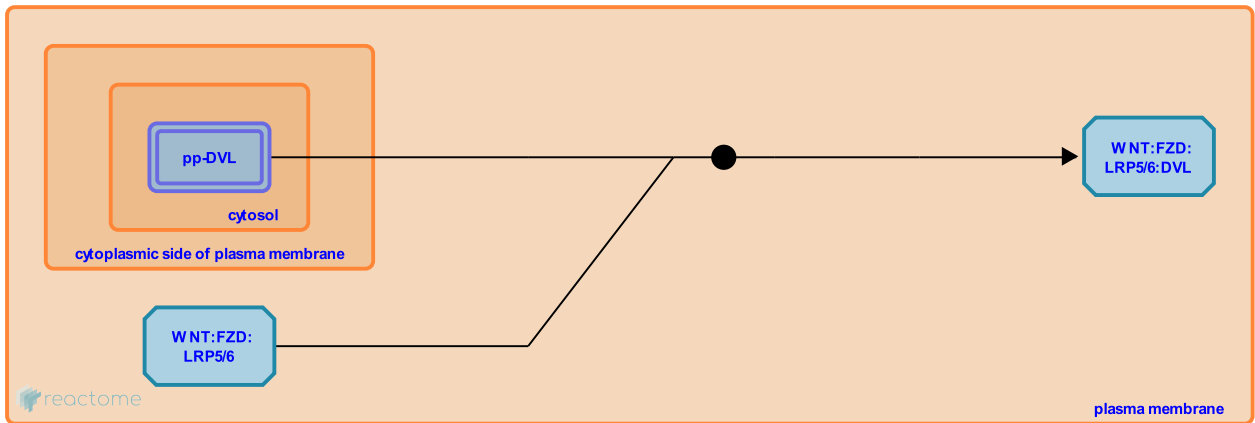This document contains 1 reaction (see Table of Contents)

FZD recruits DVL to the receptor complex ↗

Stable identifier: R-HSA-1504188

Type: binding

Compartments: plasma membrane, cytosol

Inferred from: mDvl1 binds FZD7 (Mus musculus), dDsh binds dFz2 (Drosophila melanogaster)

DVL is recruited to the plasma membrane through a direct interaction between its PDZ domain and a conserved motif of FZD located after the seventh transmembrane region. Recruitment of DVL to the receptor complex is thought to initiate recruitment of AXIN and GSK3beta (Fujii et al, 2007; Wong et al, 2003; Zeng et al, 2008; Tauriello et al, 2012).

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Editions

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