# DLL4 binds NOTCH4

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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. ↗

Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology, 14*, e1005968. ↗

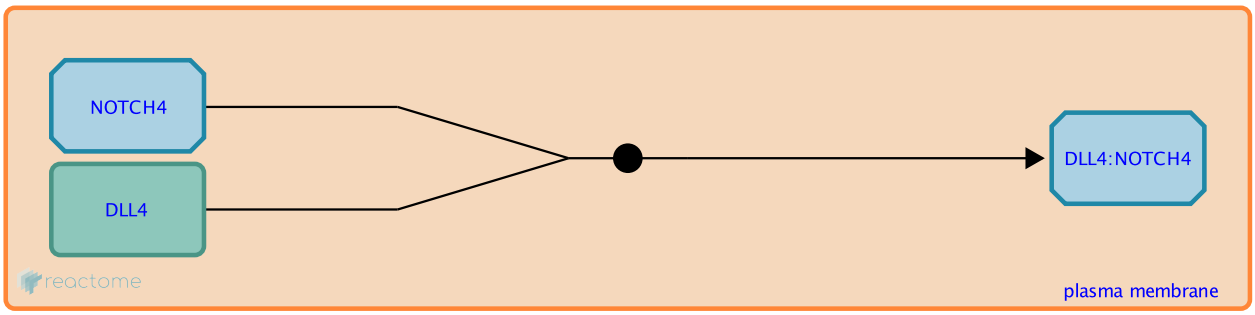
## DLL4 binds NOTCH4 ↗

**Stable identifier:** R-HSA-2168987

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** DLL4 binds Notch4 (Homo sapiens)




Both DLL4 and NOTCH4 are strongly expressed in the vascular endothelium and DLL4 is able to activate NOTCH4 signaling (Shutter et al. 2000, Shawber et al. 2003, Shawber et al. 2007). In mice, Notch4 and Dll4 are specifically expressed in arterial endothelial cells, and Dll4 is required for normal arterial patterning and development (Duarte et al. 2004).

## Editions

| | | |
|---|---|---|
| 2004-12-15 | Authored | Jassal, B. |
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