

NOTCH1 binds JAG2

D'Eustachio, P., Egan, SE., Haw, R., Jassal, B., Joutel, A., Orlic-Milacic, M.

European Bioinformatics Institute, New York University Langone Medical Center, Ontario Institute for Cancer Research, Oregon Health and Science University.

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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. [↗](#)
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Reactome database release: 70

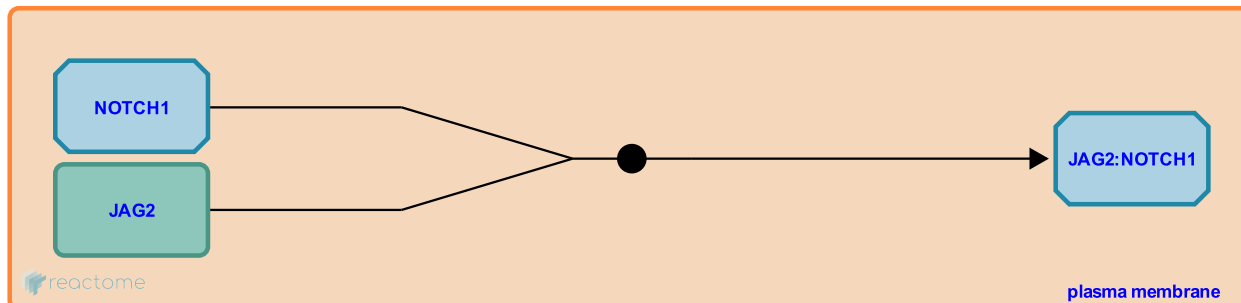
This document contains 1 reaction ([see Table of Contents](#))

NOTCH1 binds JAG2 [↗](#)

Stable identifier: R-HSA-1980044

Type: binding

Compartments: plasma membrane



NOTCH1 is activated by JAG2 ligand expressed on a neighboring cell. When the mouse myoblast cell line C2C12 expressing exogenous human NOTCH1 is grown with NIH3T3 cells expressing exogenous human JAG2, myogenic differentiation is inhibited and a NOTCH1 polypeptide that corresponds to the NOTCH intracellular domain appears (Luo et al. 1997).

Literature references

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Luo, B., Aster, JC., Hasserjian, RP., Kuo, F., Sklar, J. (1997). Isolation and functional analysis of a cDNA for human Jagged2, a gene encoding a ligand for the Notch1 receptor. *Mol Cell Biol*, 17, 6057-67. [↗](#)

Editions

2004-12-15	Authored	Jassal, B.
2004-12-15	Reviewed	Joutel, A.
2011-11-14	Revised	Egan, SE., Orlic-Milacic, M.
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