

Integrin alpha4beta1 binds JAM2:JAM3

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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

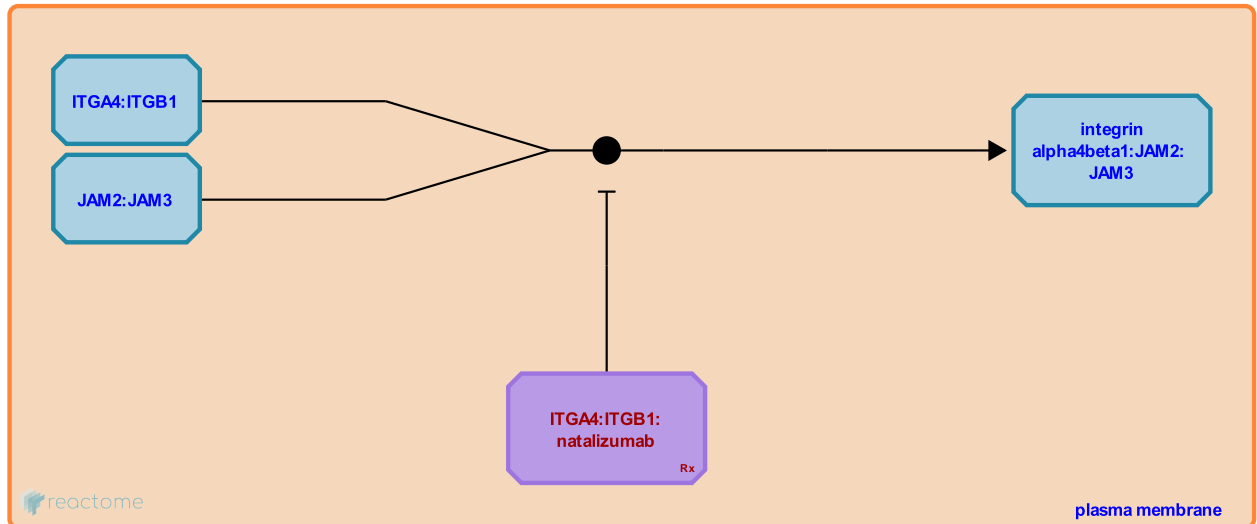
This document contains 1 reaction ([see Table of Contents](#))

Integrin alpha4beta1 binds JAM2:JAM3 [↗](#)

Stable identifier: R-HSA-202706

Type: binding

Compartments: plasma membrane



Several key IgSF cell adhesion molecules engage integrin and in so doing impact on the multi-step paradigm of leukocyte emigration. The interaction between JAM2 (JAM-B) and Integrin alpha4beta1 (VLA-4) requires prior binding of JAM2 to JAM3 (JAM-C).

Literature references

Tran, TM., Brock, TA., Cunningham, SA., Rodriguez, JM., Arrate, MP. (2002). JAM2 interacts with alpha4beta1. Facilitation by JAM3. *J Biol Chem*, 277, 27589-92. [↗](#)

Weber, C., Fraemohs, L., Dejana, E. (2007). The role of junctional adhesion molecules in vascular inflammation. *Nat Rev Immunol*, 7, 467-77. [↗](#)

Editions

2007-11-12	Authored	Ouwehand, WH.
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