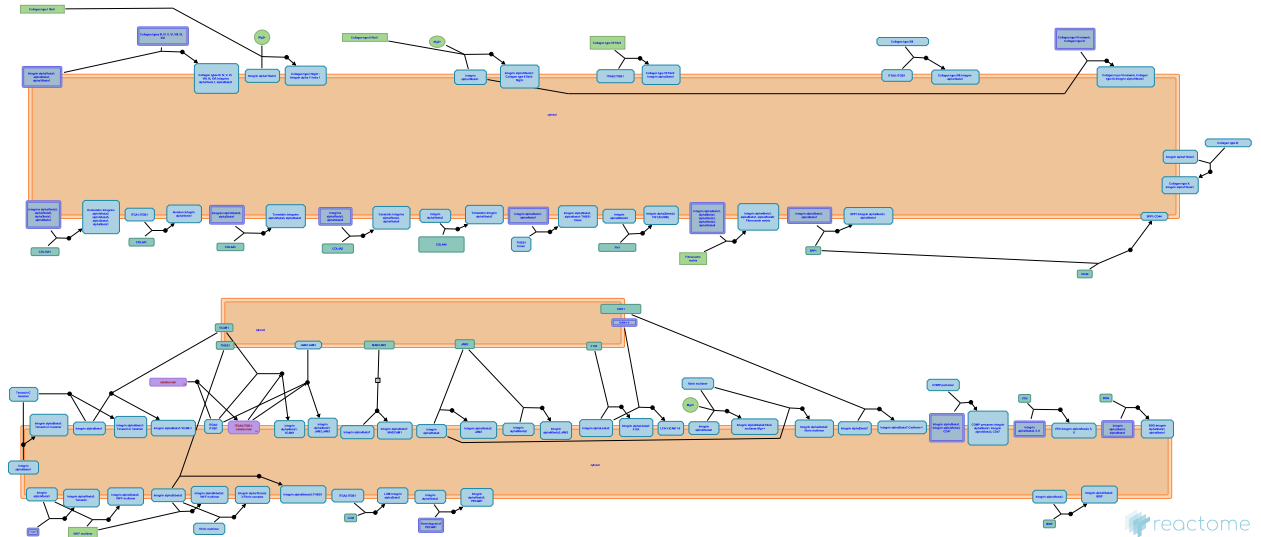


# Integrin cell surface interactions



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

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This is just an excerpt of a full-length report for this pathway. To access the complete report, please download it at the [Reactome Textbook](https://reactome.org/textbook).

06/05/2024

## 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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

## Literature references

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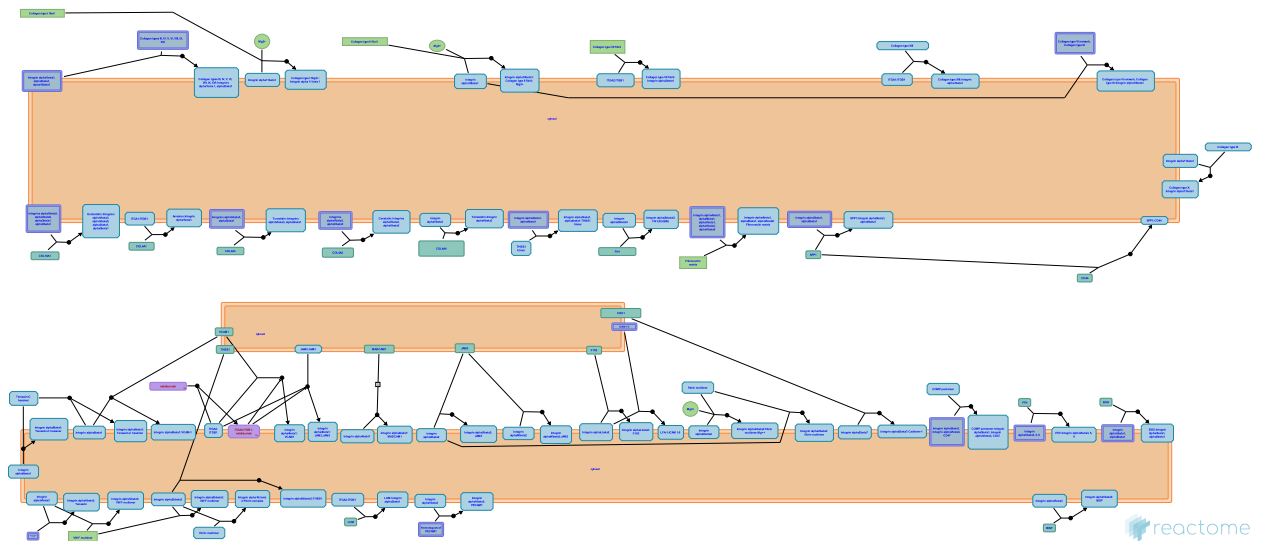
Reactome database release: 88

This document contains 1 pathway and 42 reactions ([see Table of Contents](#))

## Integrin cell surface interactions ↗

**Stable identifier:** R-SSC-216083

**Inferred from:** [Integrin cell surface interactions \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen types III, IV, V, VI, VIII, IX, XVI bind integrins alpha1beta1 and alpha2beta1



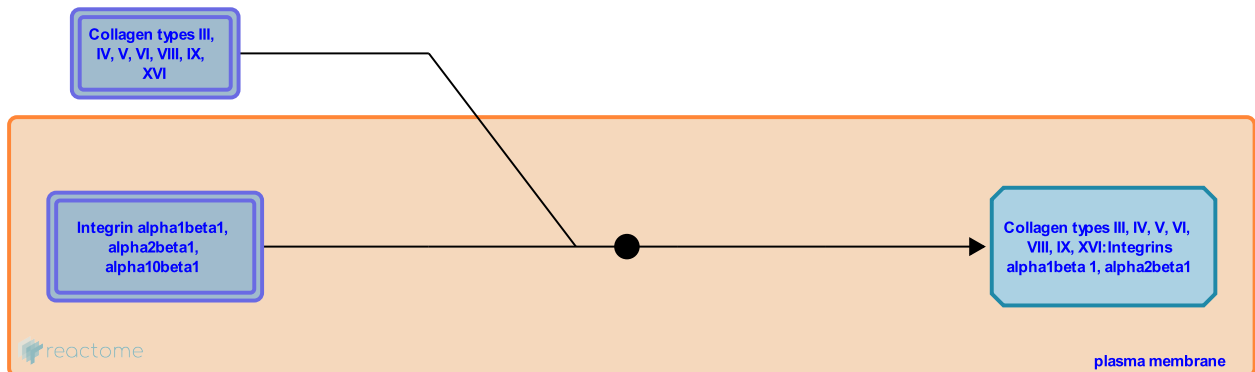
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-2327695

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen types III, IV, V, VI, VIII, IX, XVI bind integrins alpha1beta1 and alpha2beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen type I binds integrin alpha11beta1 ↗

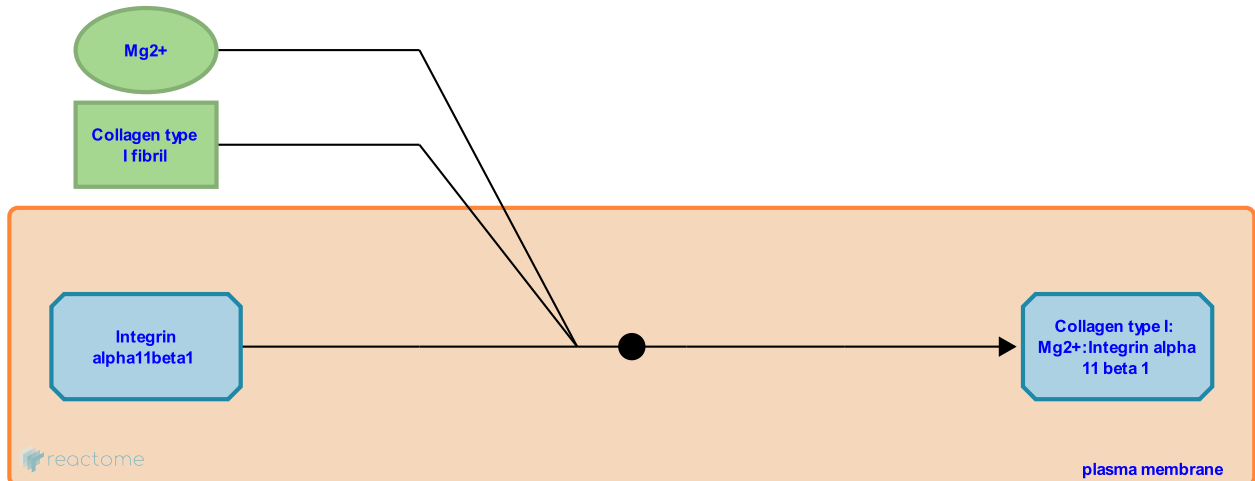
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216045

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen type I binds integrin alpha11beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen type II binds integrin alpha10beta1 ↗

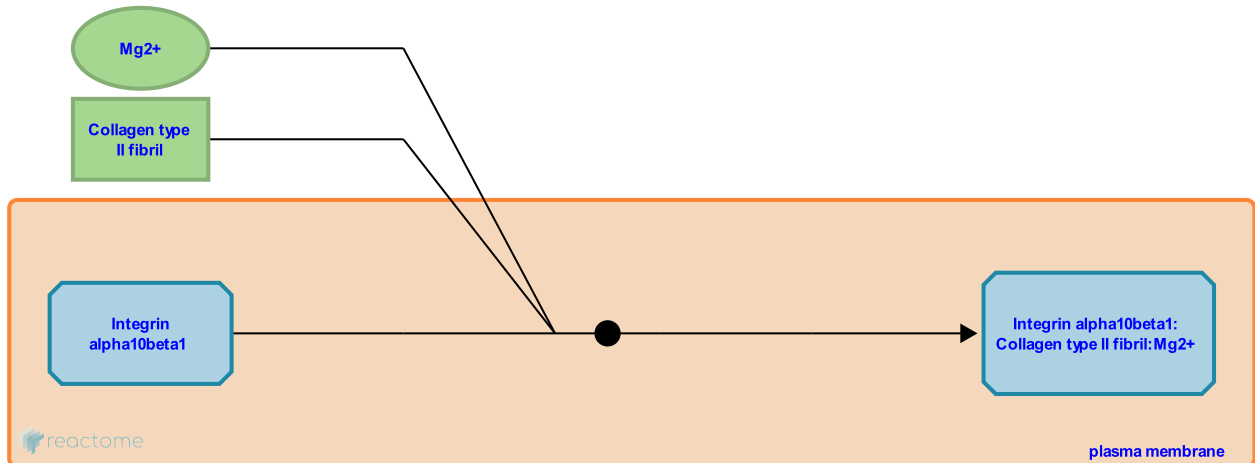
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216043

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen type II binds integrin alpha10beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen type VII binds integrin alpha2beta1 [↗](#)

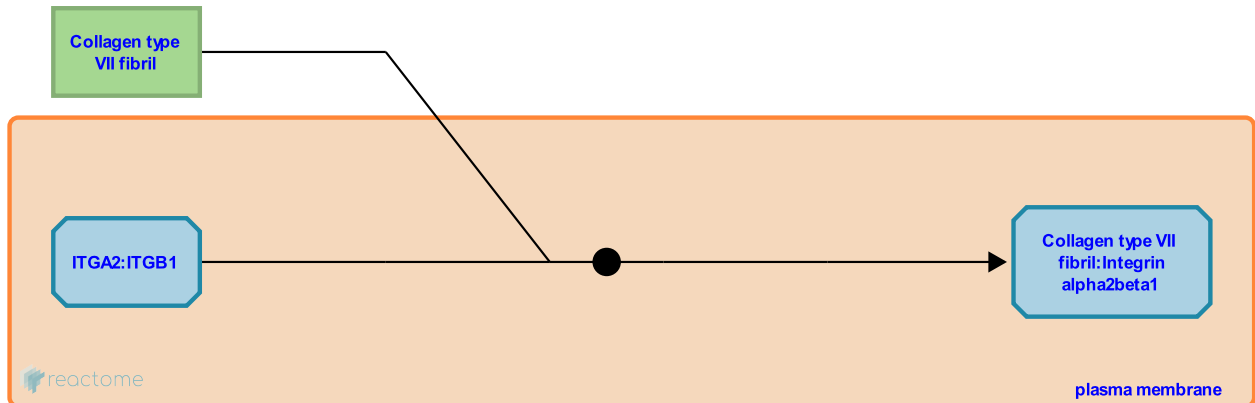
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4086216

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen type VII binds integrin alpha2beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen type XIII binds Integrin alpha1beta1 ↗

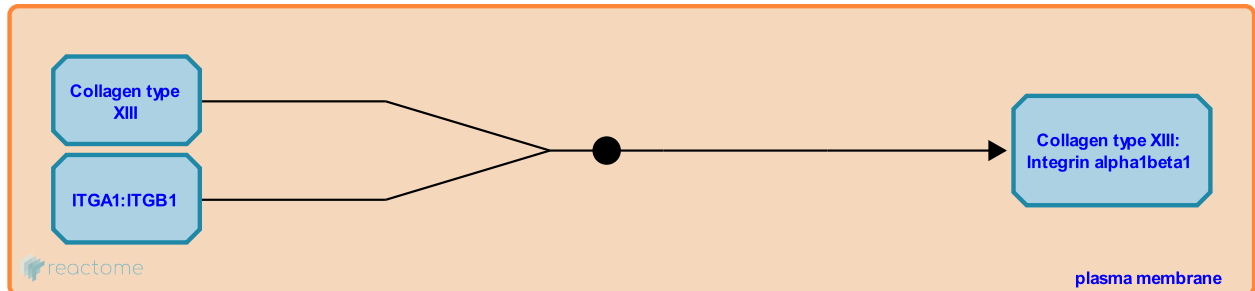
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-2484965

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Collagen type XIII binds Integrin alpha1beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>



## Collagen types VI, IX bind integrin alpha10beta1 [↗](#)

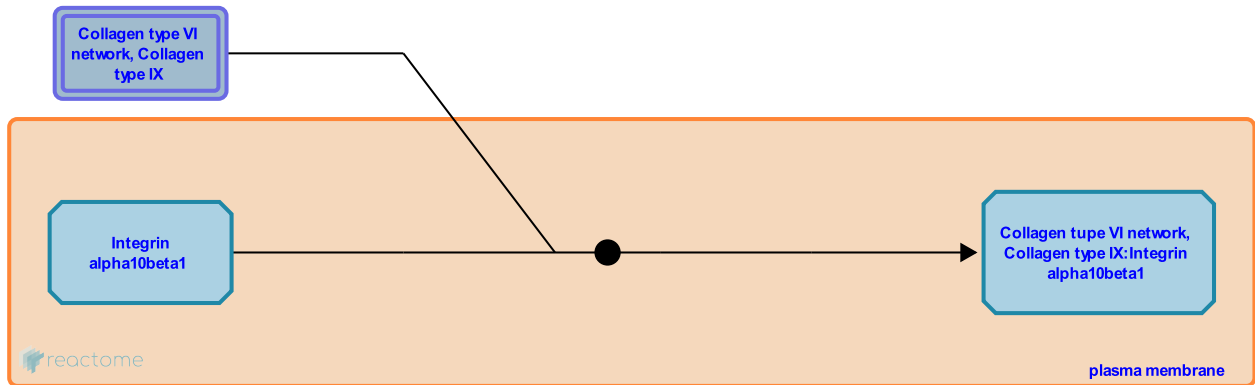
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4084903

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen types VI, IX bind integrin alpha10beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Collagen type IX binds integrin alpha11beta1 ↗

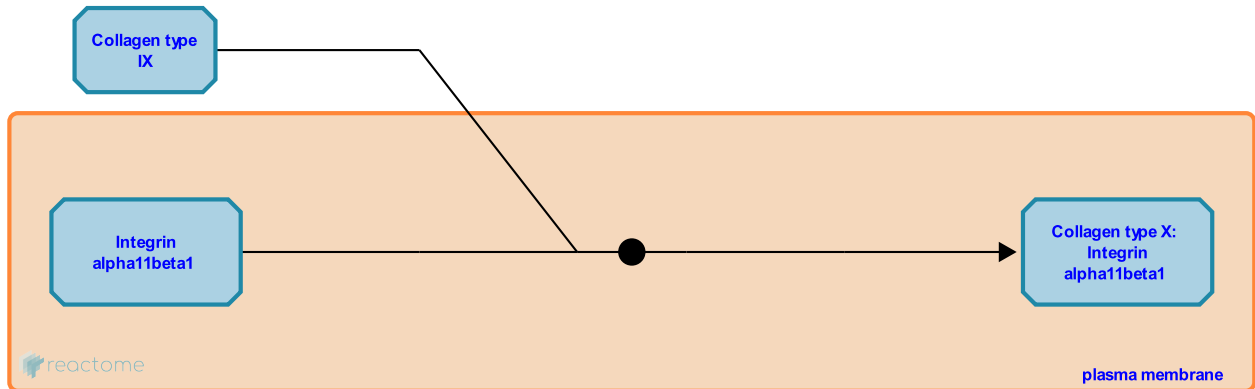
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4086223

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Collagen type IX binds integrin alpha11beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Arresten binds integrin alpha1beta1 ↗

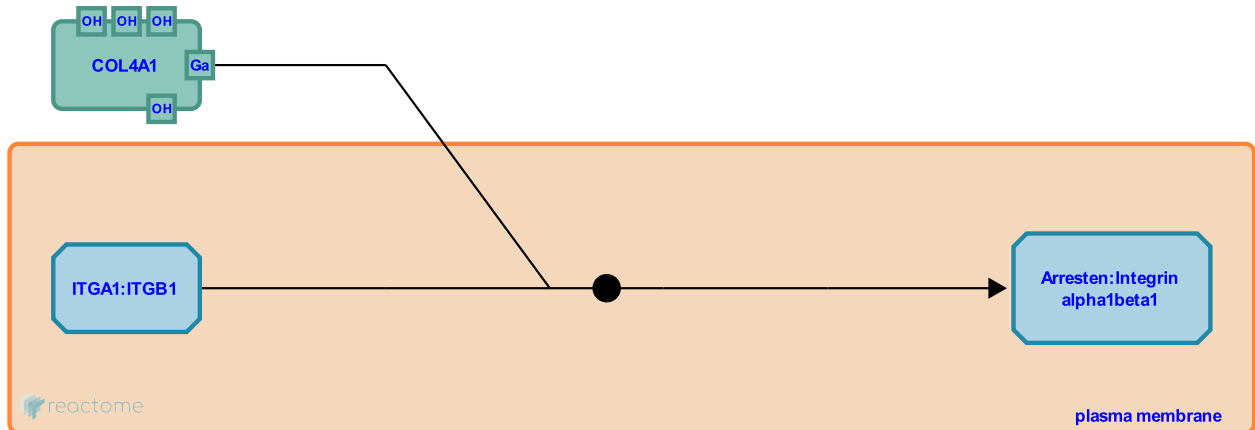
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4084912

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Arresten binds integrin alpha1beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Endostatin binds integrin alphaVbeta3, alphaVbeta5, alpha3beta1, alpha5beta1 ↗

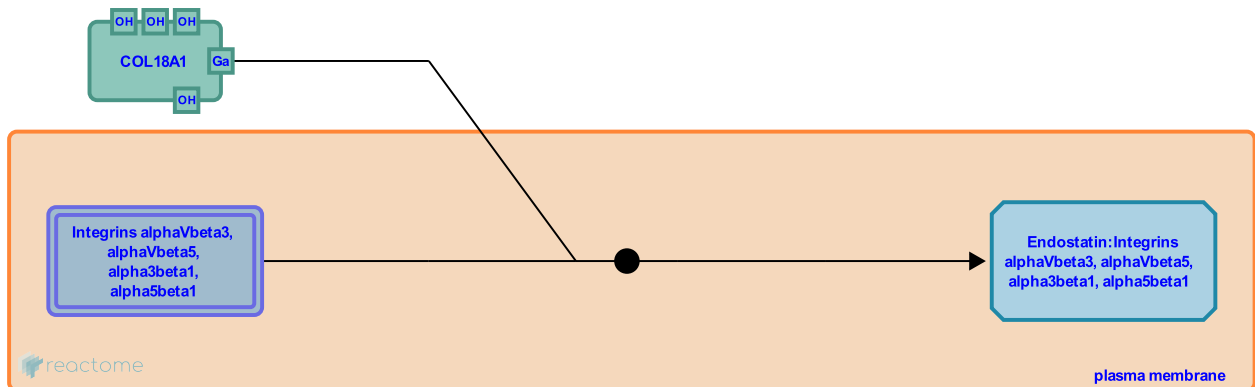
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4088264

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Endostatin binds integrin alphaVbeta3, alphaVbeta5, alpha3beta1, alpha5beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Tumstatin binds integrin alphaVbeta 3, alpha3beta1 ↗

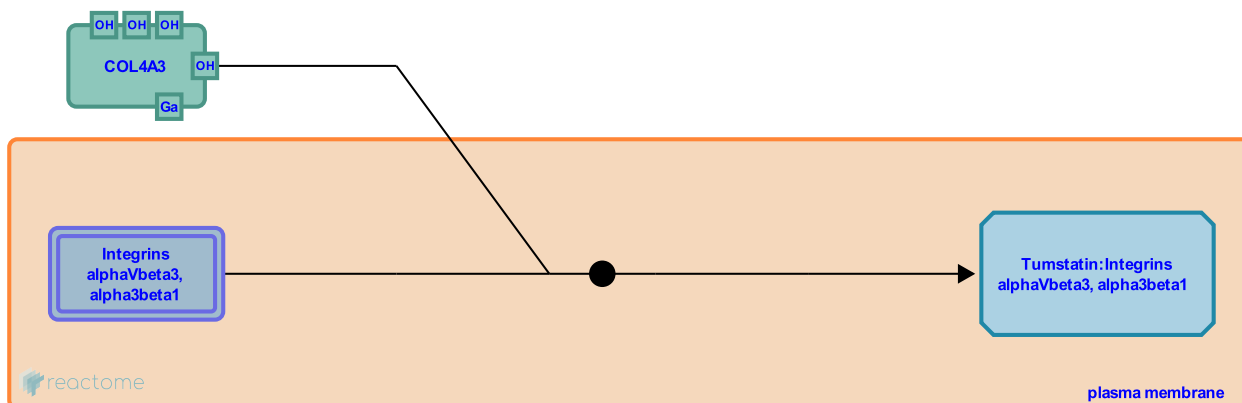
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4085083

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Tumstatin binds integrin alphaVbeta 3, alpha3beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Canstatin binds integrins alphaVbeta3, alphaVbeta5 ↗

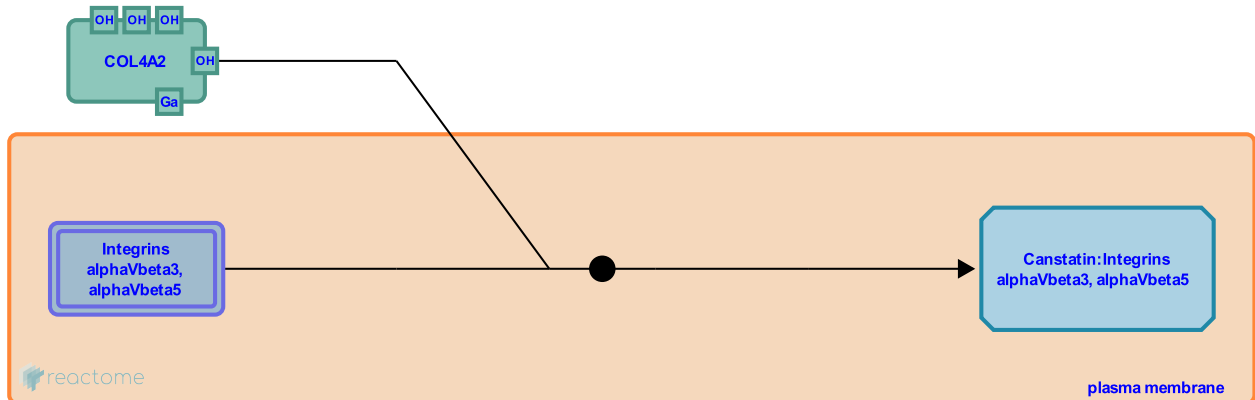
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4085087

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Canstatin binds integrins alphaVbeta3, alphaVbeta5 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Tetrastatin binds integrin alphaVbeta3 ↗

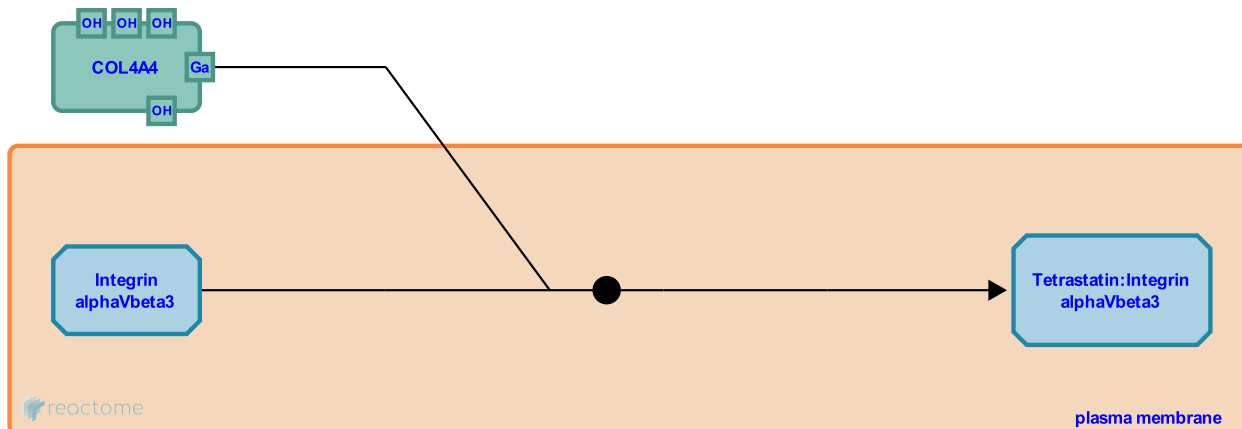
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4088218

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Tetrastatin binds integrin alphaVbeta3 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## THBS1 (Thrombospondin-1) binds Integrin alpha3beta1, alpha4beta1 ↗

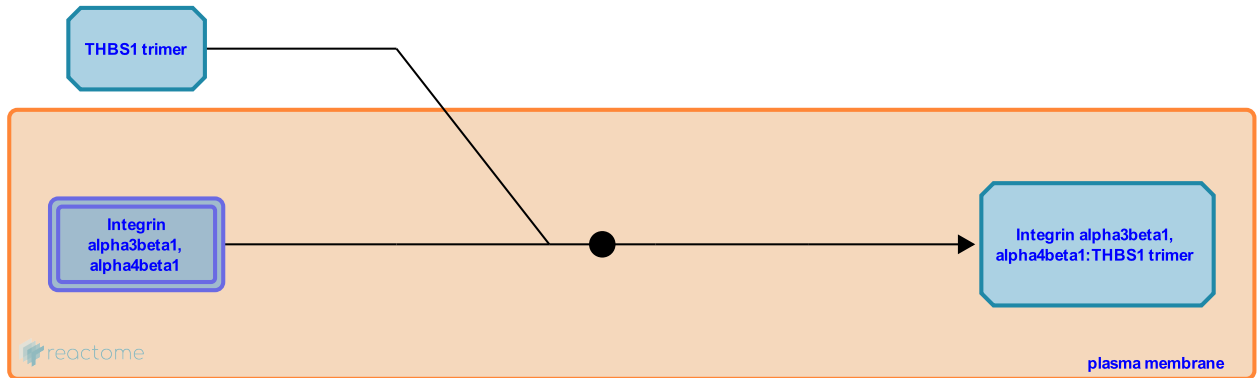
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265429

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [THBS1 \(Thrombospondin-1\) binds Integrin alpha3beta1, alpha4beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>



## Integrins alpha4beta1, alpha8beta1, alphaVbeta1, alphaVbeta3, alphaVbeta6 bind Fibronectin matrix ↗

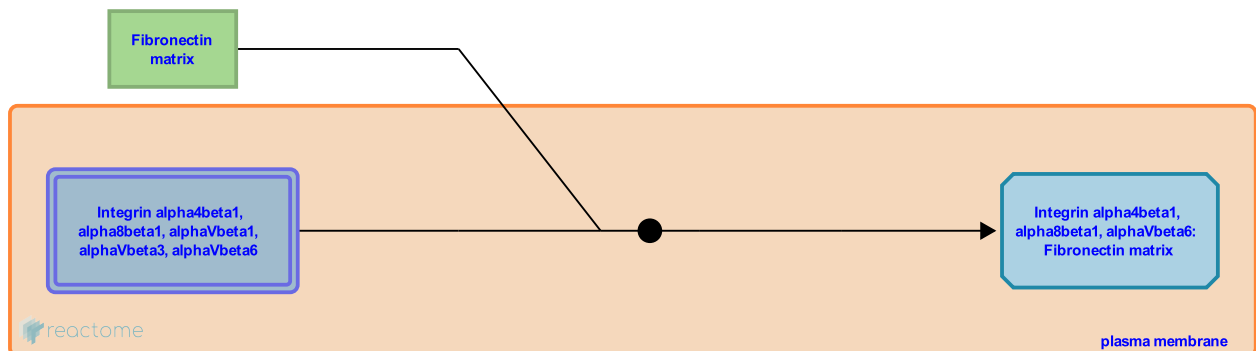
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216050

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Integrins alpha4beta1, alpha8beta1, alphaVbeta1, alphaVbeta3, alphaVbeta6 bind Fibronectin matrix \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## SPP1 (osteopontin) binds integrin alpha5beta1, alpha9beta1 ↗

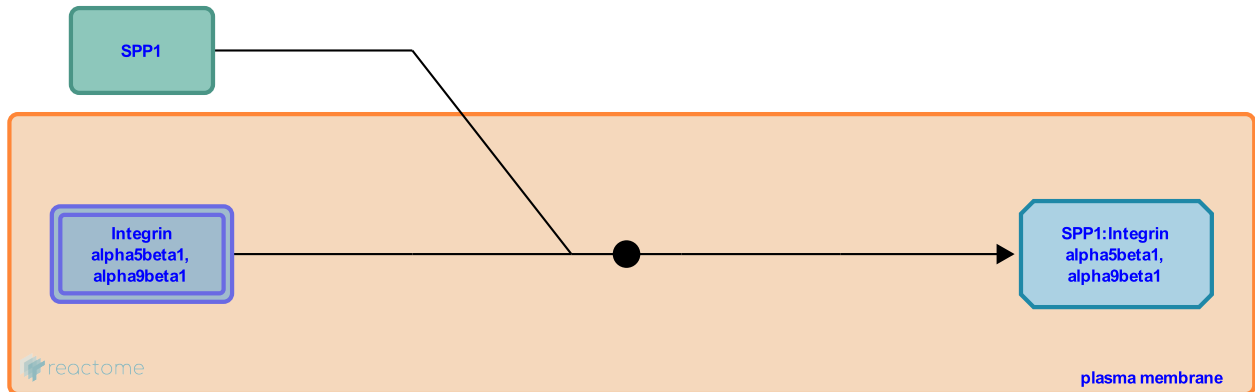
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265424

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [SPP1 \(osteopontin\) binds integrin alpha5beta1, alpha9beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## SPP1 (osteopontin) binds CD44 ↗

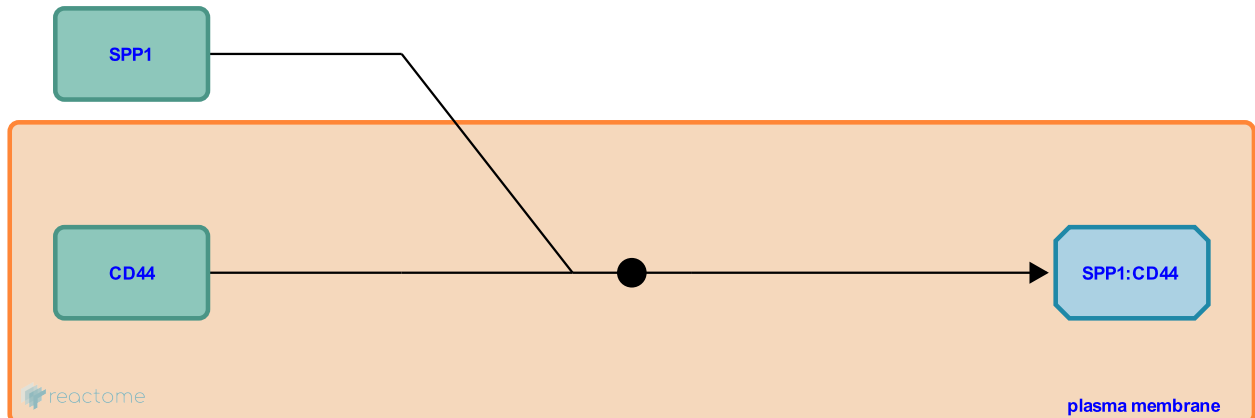
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-2752115

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [SPP1 \(osteopontin\) binds CD44 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## VCAM1 binds Integrin alpha4beta1 ↗

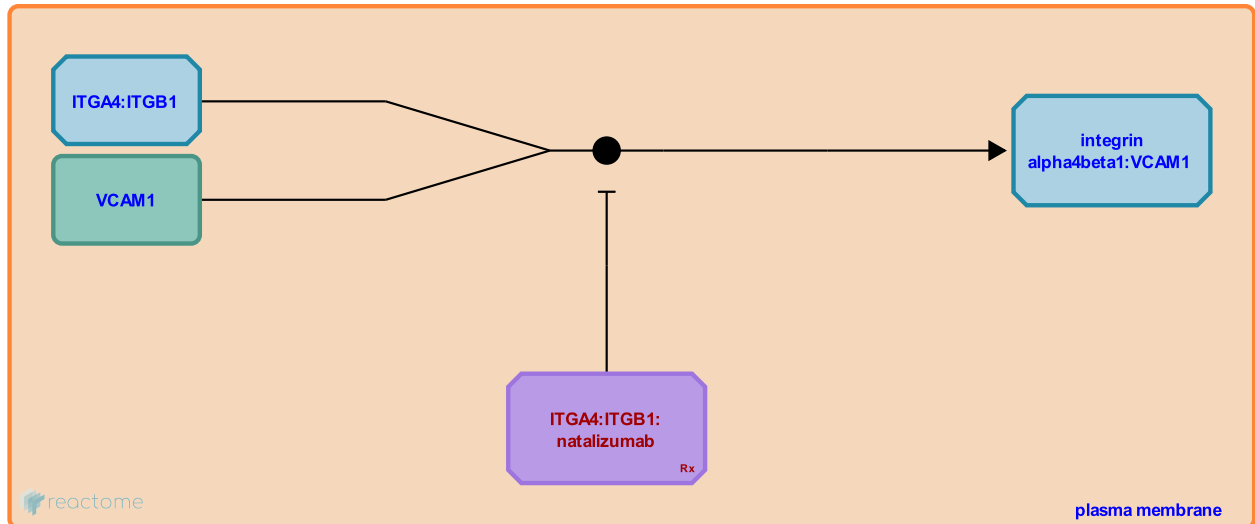
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-198941

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [VCAM1 binds Integrin alpha4beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](http://www.pantherdb.org/about.jsp) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Integrin alpha4beta1 binds JAM2:JAM3 ↗

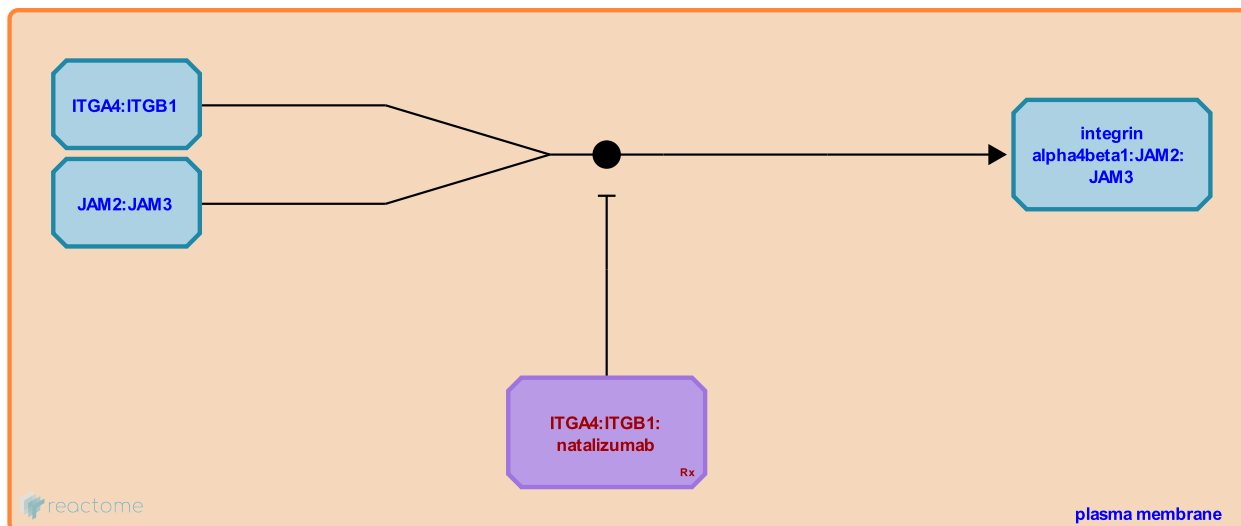
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-202706

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Integrin alpha4beta1 binds JAM2:JAM3 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## ITGA4:ITGB1 binds natalizumab ↗

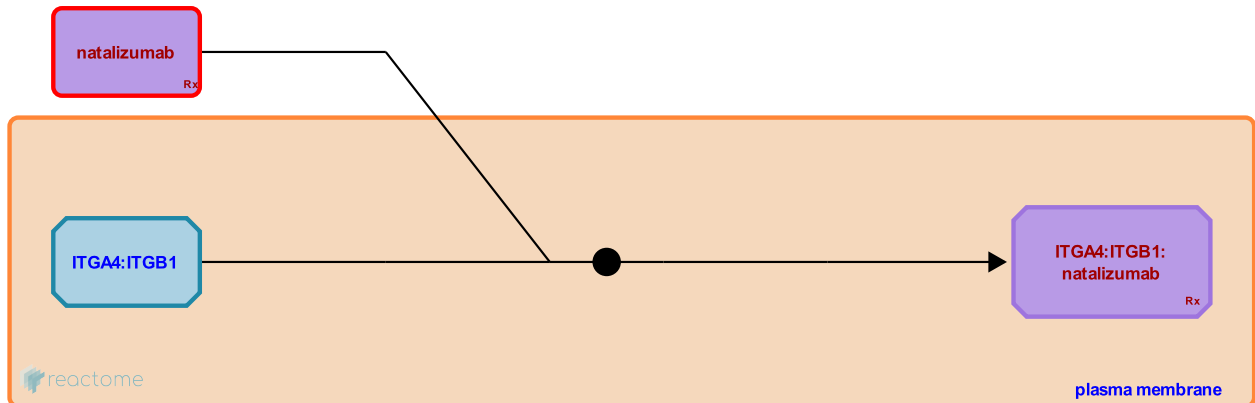
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-9679740

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [ITGA4:ITGB1 binds natalizumab \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## MADCAM1-1 binds Integrin alpha4beta7 [↗](#)

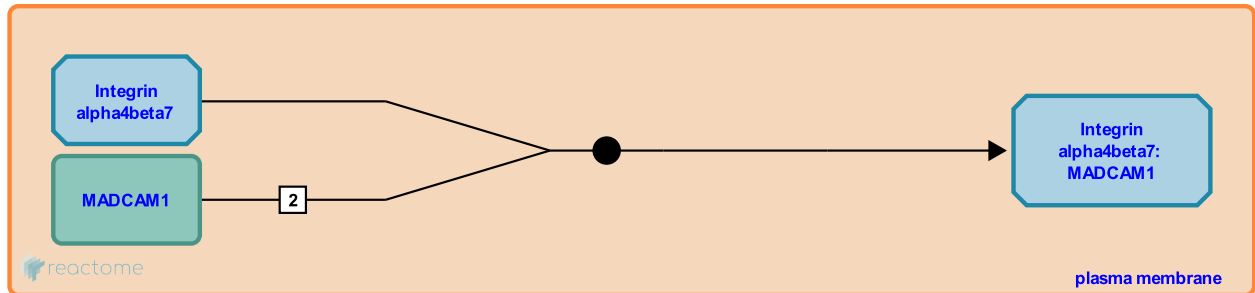
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-199032

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [MADCAM1-1 binds Integrin alpha4beta7 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alpha8beta1 with Tenascin-C ↗

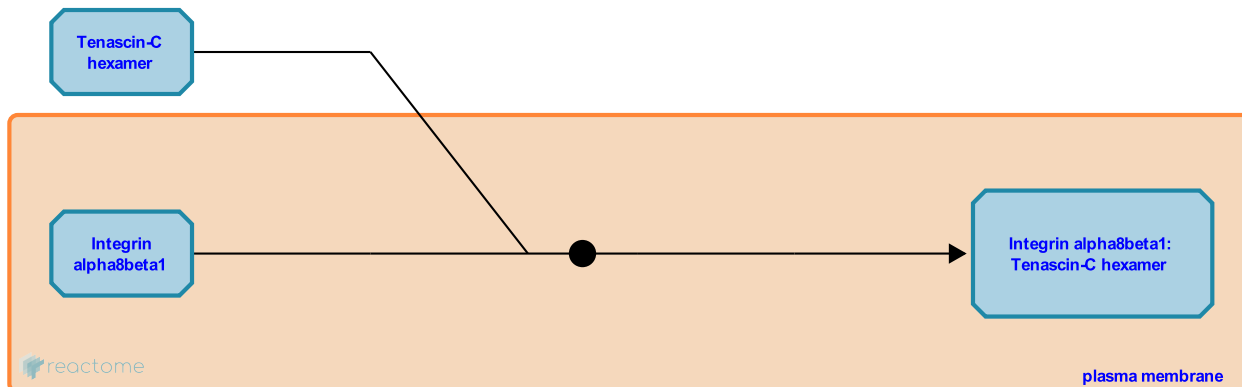
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216064

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alpha8beta1 with Tenascin-C \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>



## Interaction of integrin alpha9beta1 with VCAM1 ↗

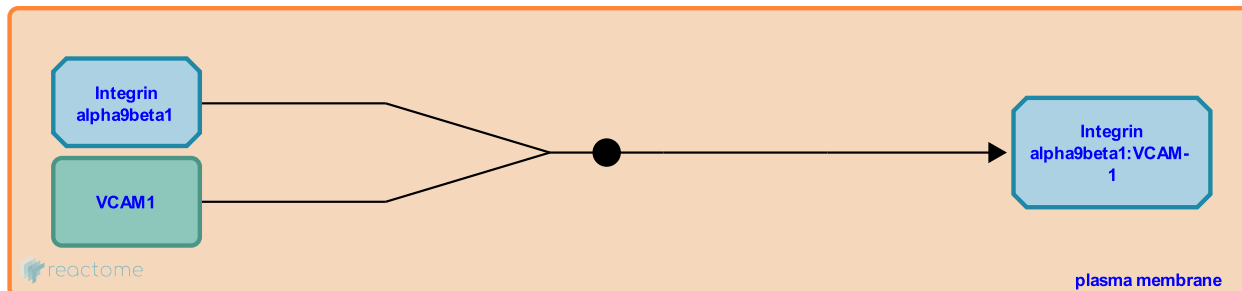
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265428

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Interaction of integrin alpha9beta1 with VCAM1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alpha9beta1 with Tenascin-C ↗

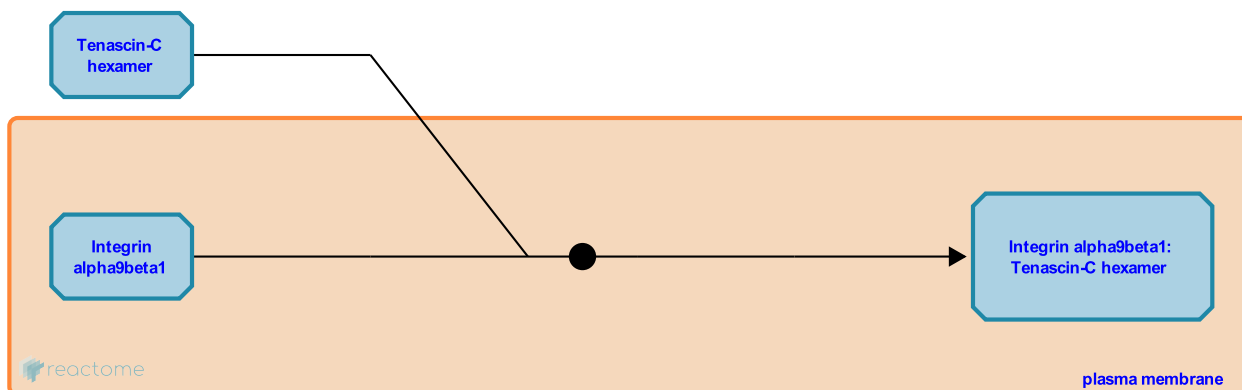
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216068

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alpha9beta1 with Tenascin-C \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaDbeta2 with fibrin ↗

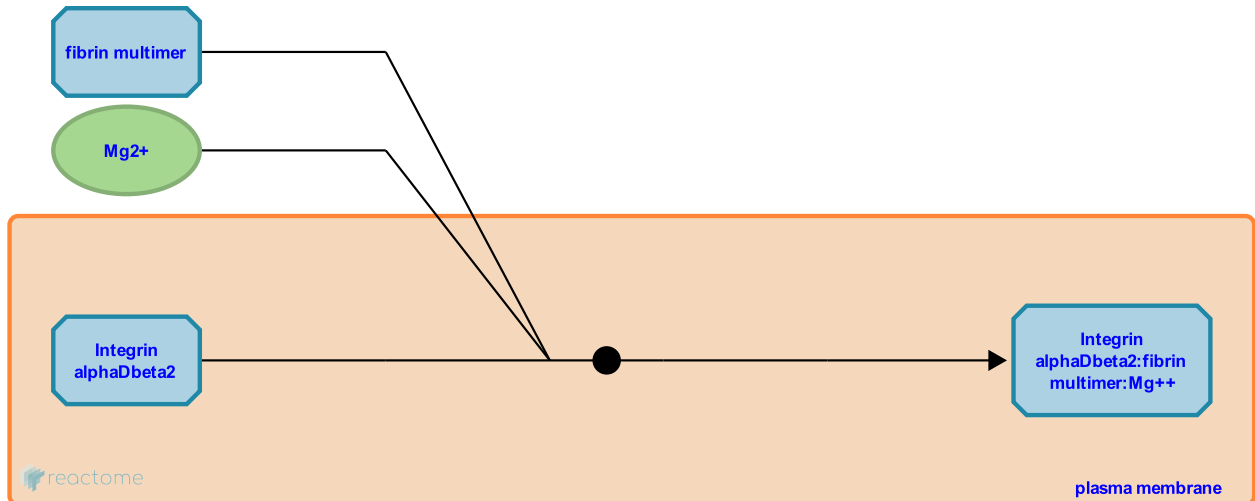
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216069

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaDbeta2 with fibrin \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaXbeta2 with fibrin ↗

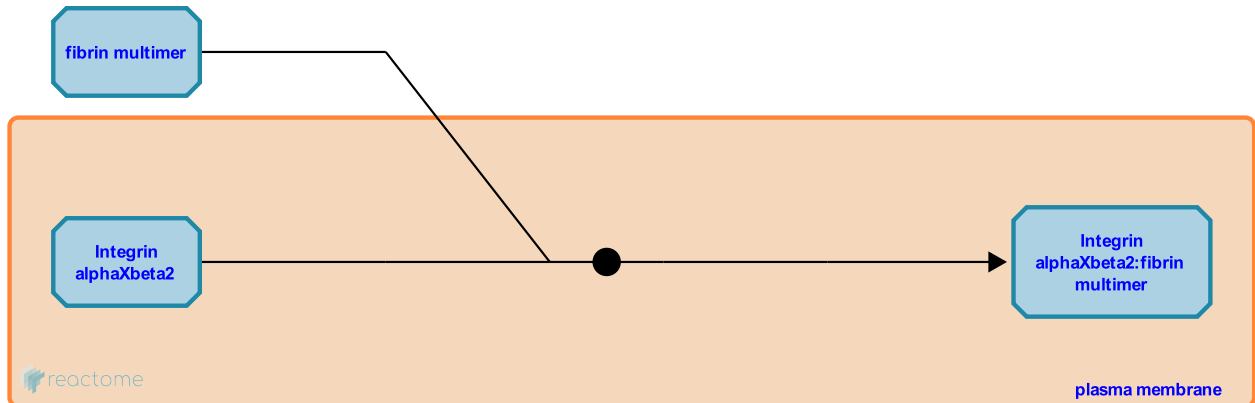
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216082

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaXbeta2 with fibrin \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## VTN (vitronectin) binds Integrin alphaVbeta3, alphaVbeta5, alphaVbeta8 ↗

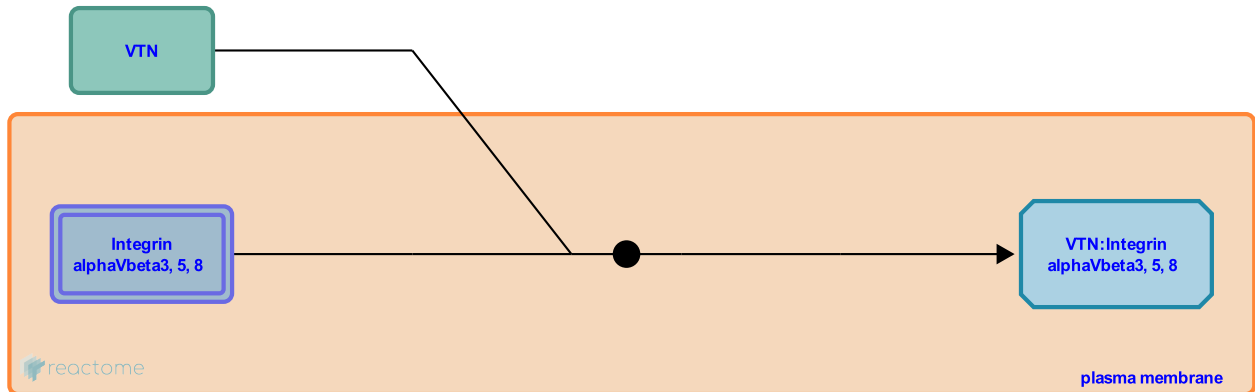
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216076

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [VTN \(vitronectin\) binds Integrin alphaVbeta3, alphaVbeta5, alphaVbeta8 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Integrin alphaXbeta2 binds JAM3 ↗

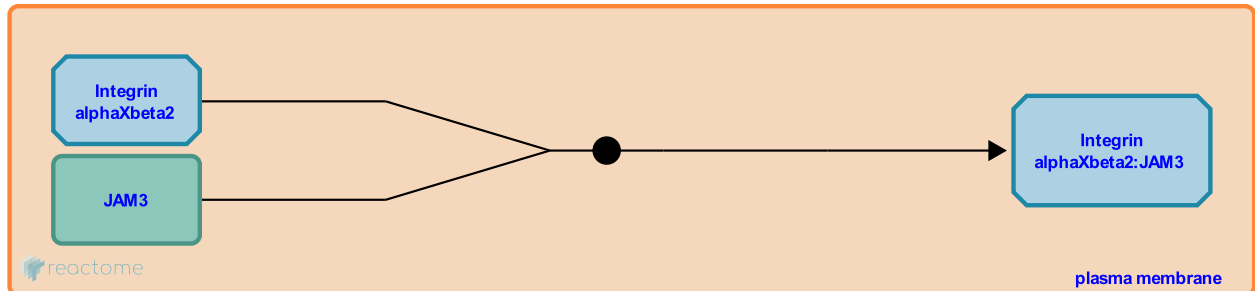
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-202704

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Integrin alphaXbeta2 binds JAM3 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## ICAM1-5 bind Integrin alphaLbeta2 (LFA-1) ↗

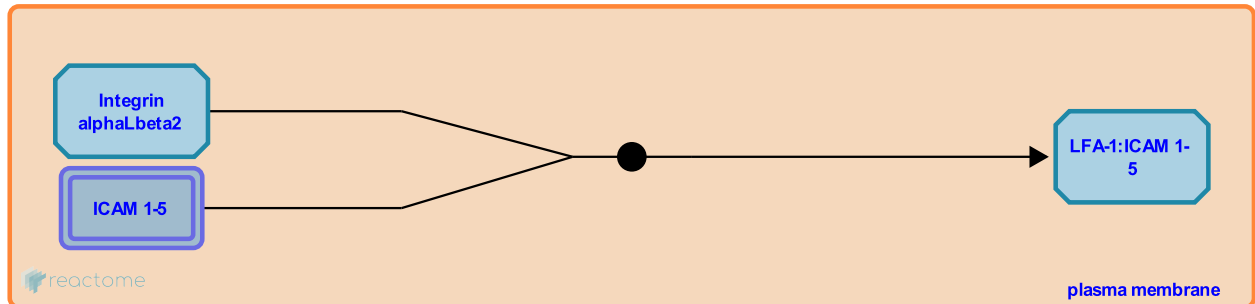
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-199050

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [ICAM1-5 bind Integrin alphaLbeta2 \(LFA-1\) \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Integrin alphaLbeta2 (LFA-1) binds F11R (JAM-A) ↗

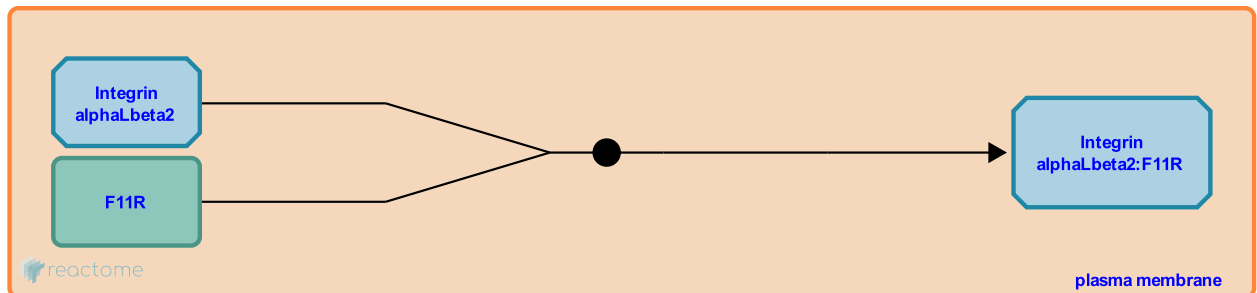
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-202718

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Integrin alphaLbeta2 \(LFA-1\) binds F11R \(JAM-A\) \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>



## Integrin alphaMbeta2 (MAC1) binds JAM3 ↗

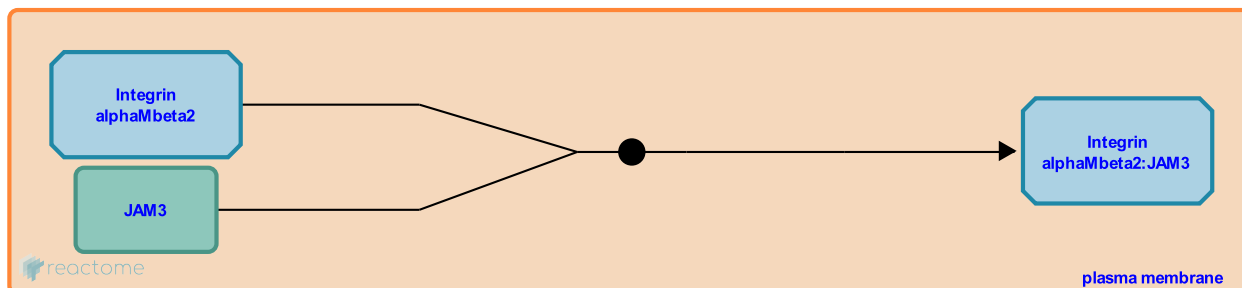
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-202727

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Integrin alphaMbeta2 \(MAC1\) binds JAM3 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## BSG (basigin) binds Integrin alpha3beta1, alpha6beta1 ↗

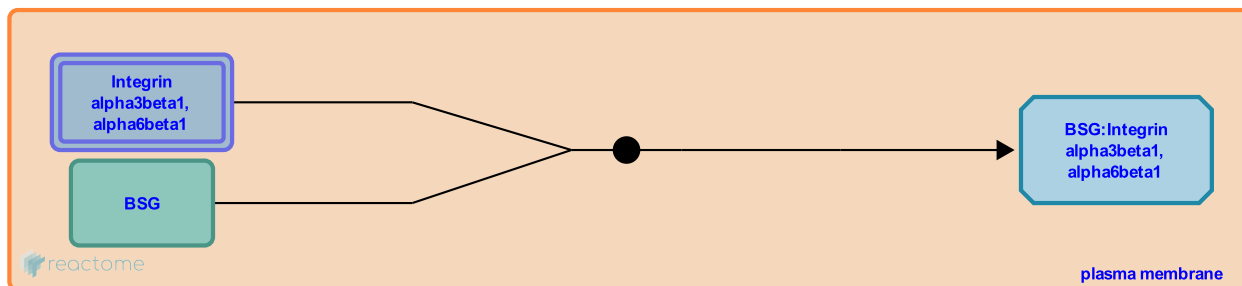
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-204434

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [BSG \(basigin\) binds Integrin alpha3beta1, alpha6beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaVbeta3 with IPSP (Bone sialoprotein 2) ↗

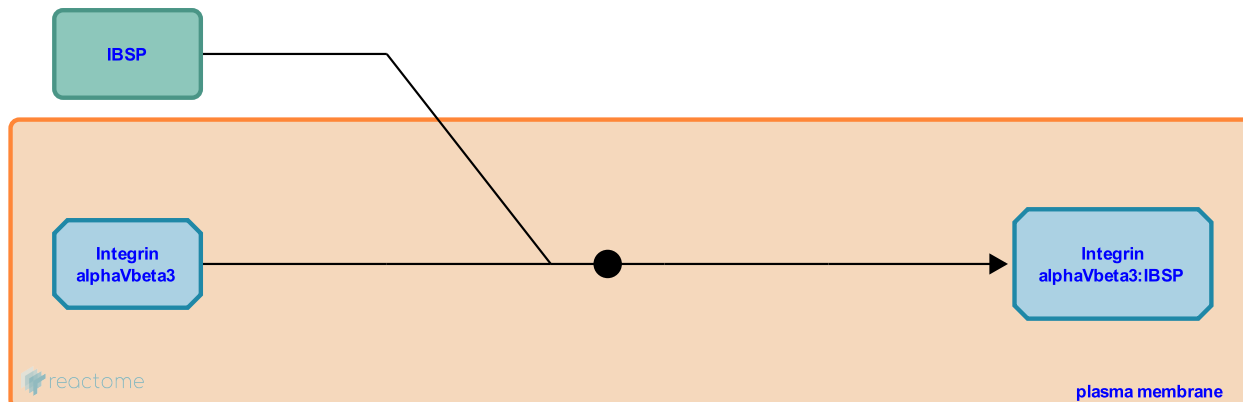
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265427

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaVbeta3 with IPSP \(Bone sialoprotein 2\) \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaVbeta3 with Tenascin [↗](#)

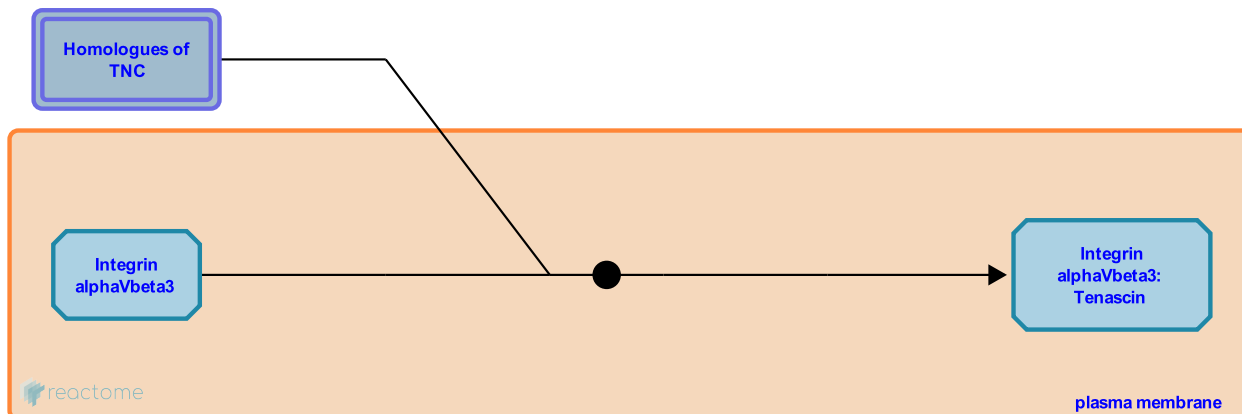
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265426

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaVbeta3 with Tenascin \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaVbeta3 with von Willbrand Factor ↗

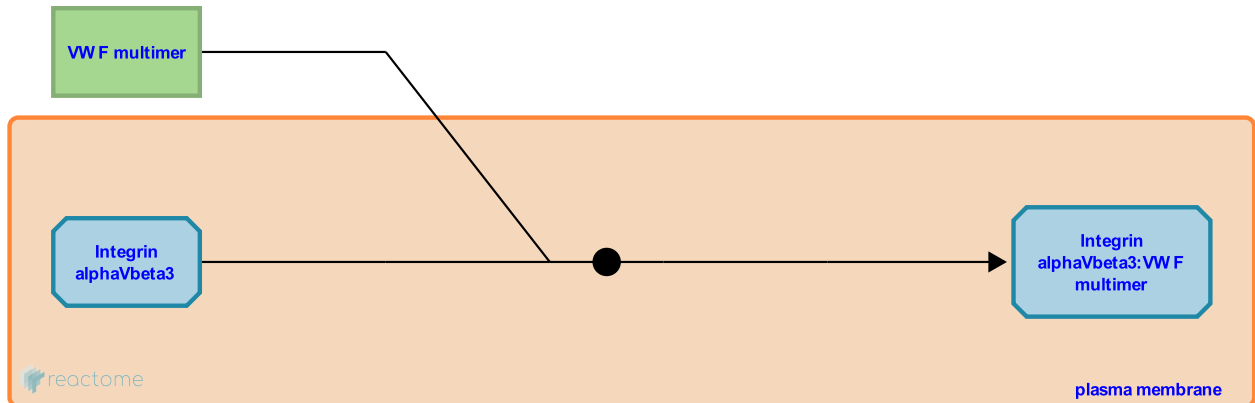
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265425

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaVbeta3 with von Willbrand Factor \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaVbeta3 with PECAM1 ↗

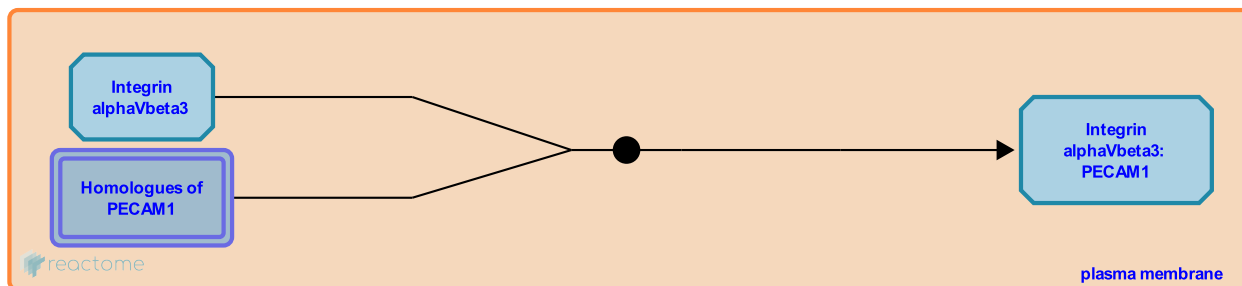
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-210304

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Interaction of integrin alphaVbeta3 with PECAM1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaEbeta7 with Cadherin-1 ↗

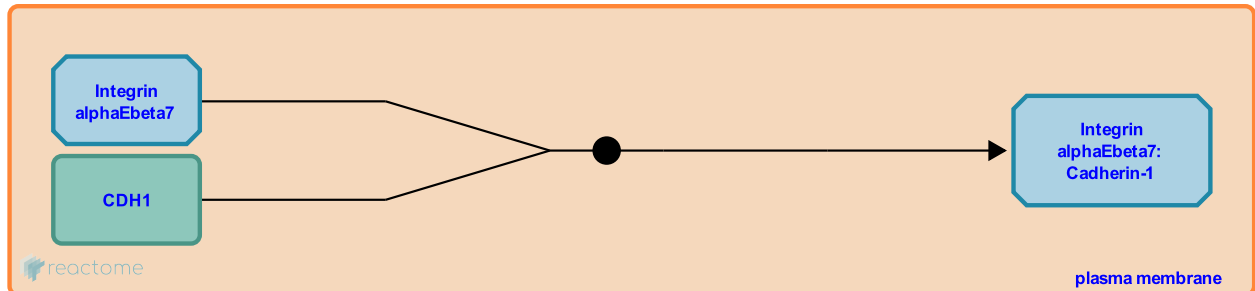
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-265422

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Interaction of integrin alphaEbeta7 with Cadherin-1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaIIbeta3 with Fibronectin ↗

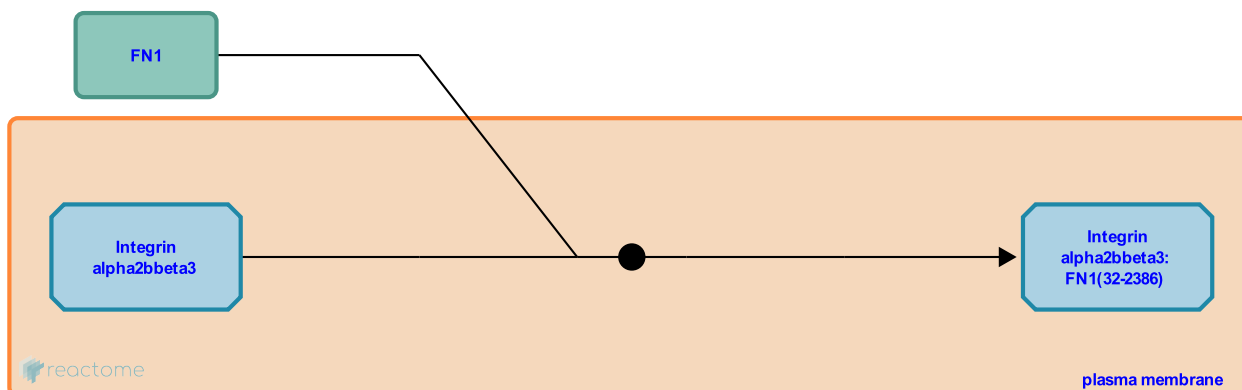
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-349593

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaIIbeta3 with Fibronectin \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>



## Adhesion of integrin alphaIIbeta3 to fibrin network ↗

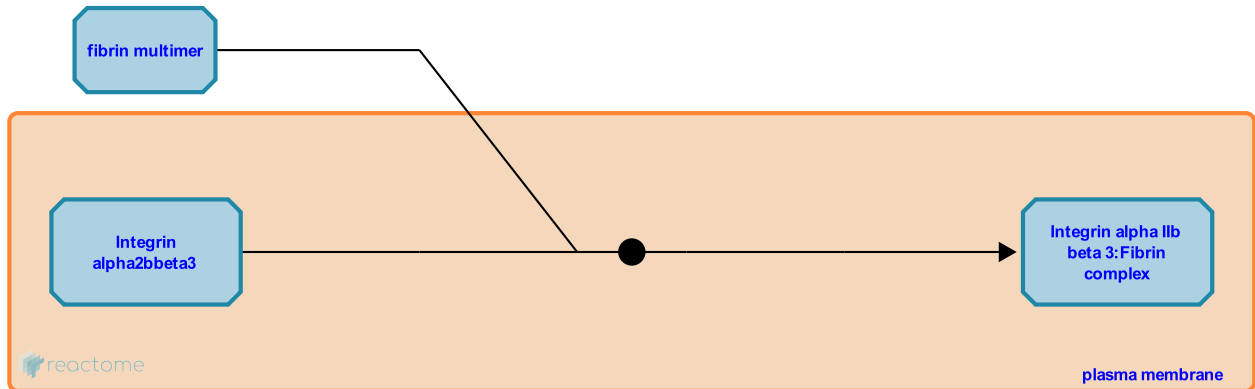
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-114560

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Adhesion of integrin alphaIIbeta3 to fibrin network \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaIIb beta3 with von Willebrand factor ↗

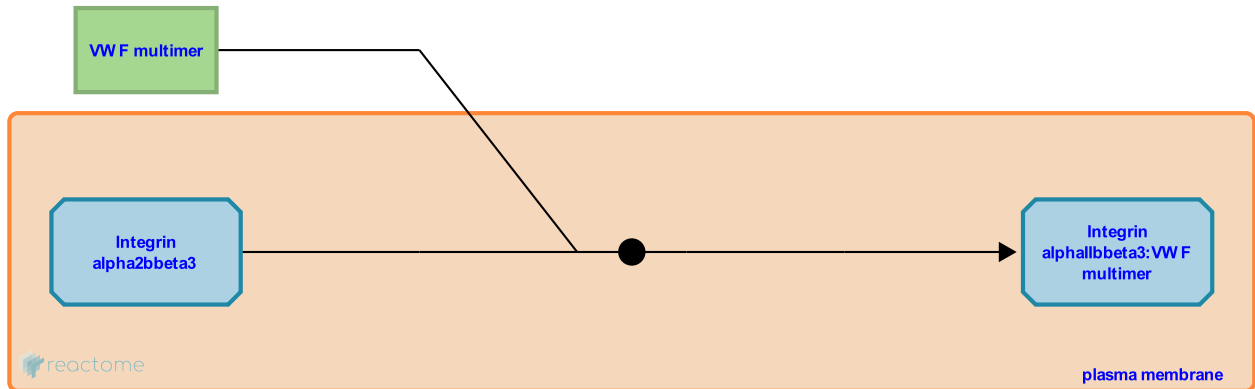
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-216072

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaIIb beta3 with von Willebrand factor \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## Interaction of integrin alphaIIb beta 3 with THBS1 (Thrombospondin-1) ↗

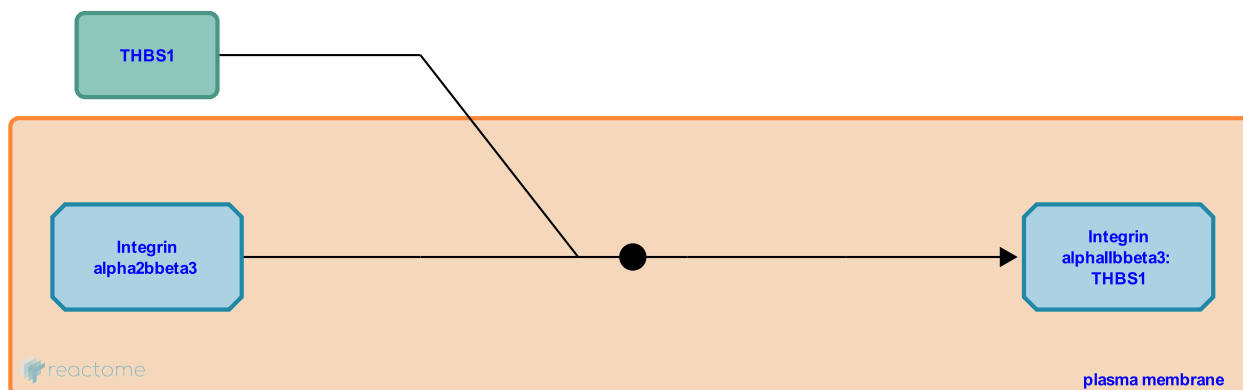
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-349603

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [Interaction of integrin alphaIIb beta 3 with THBS1 \(Thrombospondin-1\) \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## LUM (lumican) binds integrin alpha2beta1 ↗

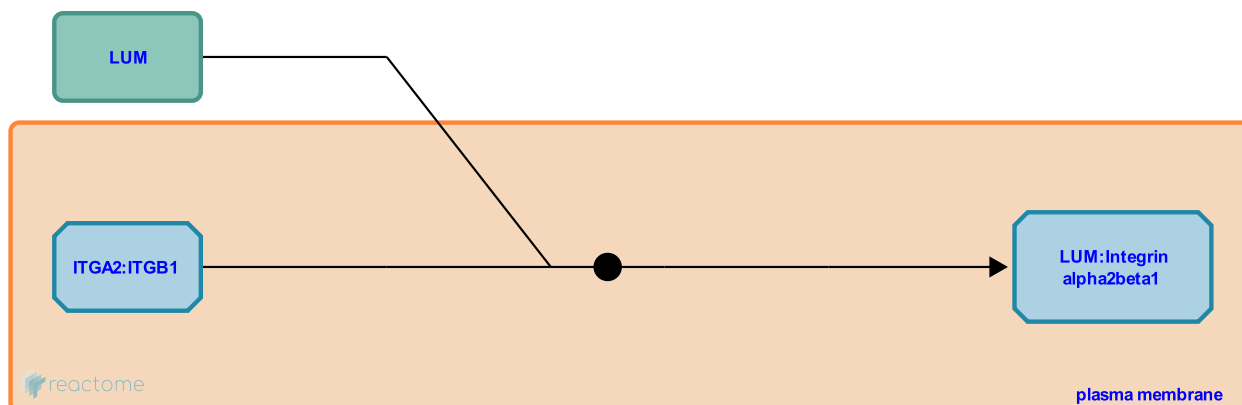
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-4085133

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [LUM \(lumican\) binds integrin alpha2beta1 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

## COMP binds Integrin alpha5beta1, Integrin alphaVbeta3, CD47 ↗

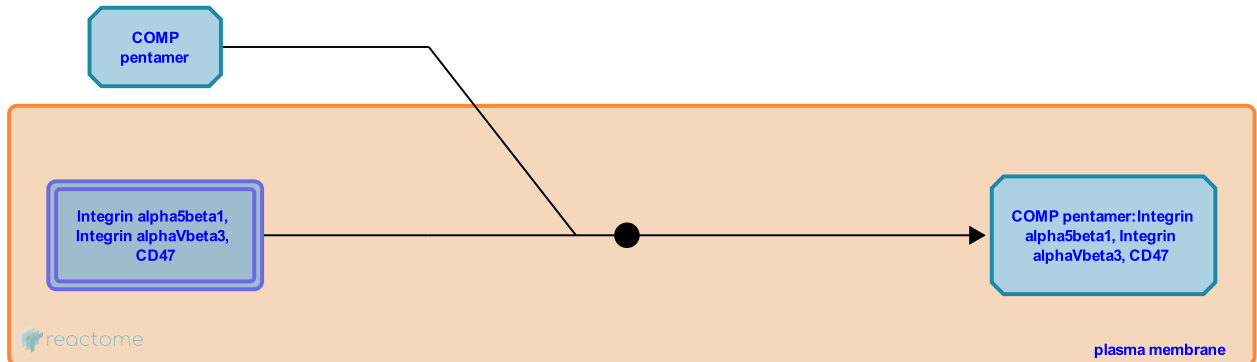
**Location:** [Integrin cell surface interactions](#)

**Stable identifier:** R-SSC-2426259

**Type:** binding

**Compartments:** plasma membrane, extracellular region

**Inferred from:** [COMP binds Integrin alpha5beta1, Integrin alphaVbeta3, CD47 \(Homo sapiens\)](#)



This event has been computationally inferred from an event that has been demonstrated in another species.

The inference is based on the homology mapping from PANTHER. Briefly, reactions for which all involved PhysicalEntities (in input, output and catalyst) have a mapped orthologue/paralogue (for complexes at least 75% of components must have a mapping) are inferred to the other species. High level events are also inferred for these events to allow for easier navigation.

[More details and caveats of the event inference in Reactome.](#) For details on PANTHER see also: <http://www.pantherdb.org/about.jsp>

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