reactome

Integrin cell surface interactions

07/09/2021

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

Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics, 18*, 142. ↗

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. ↗

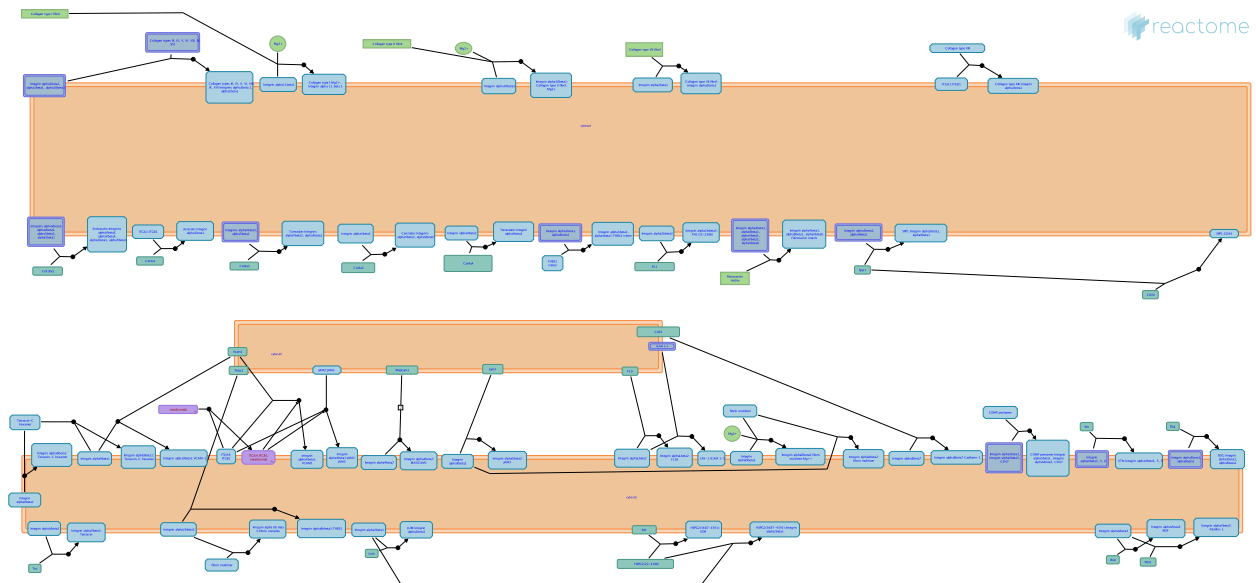Reactome database release: 77

This document contains 1 pathway and 39 reactions (see Table of Contents)

Integrin cell surface interactions ↗

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

Collagen types III, IV, V, VI, VIII, IX, XVI bind integrins alpha1beta1 and alpha2beta1 ↗
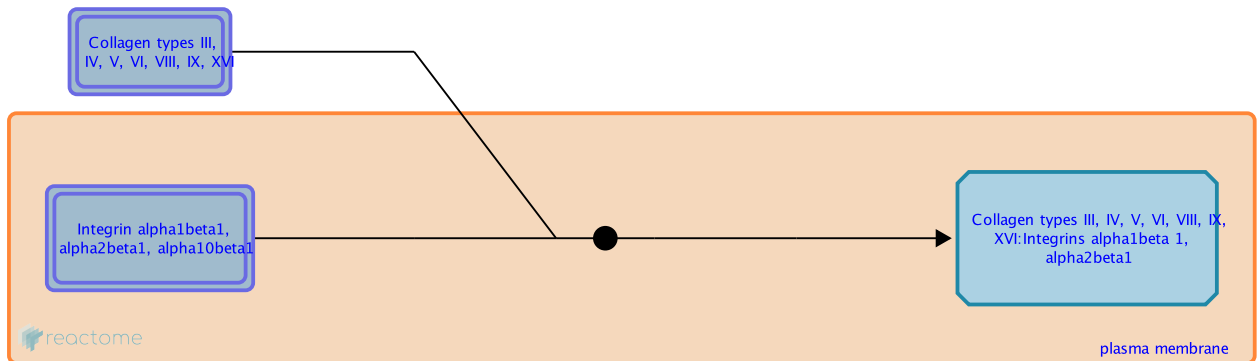
Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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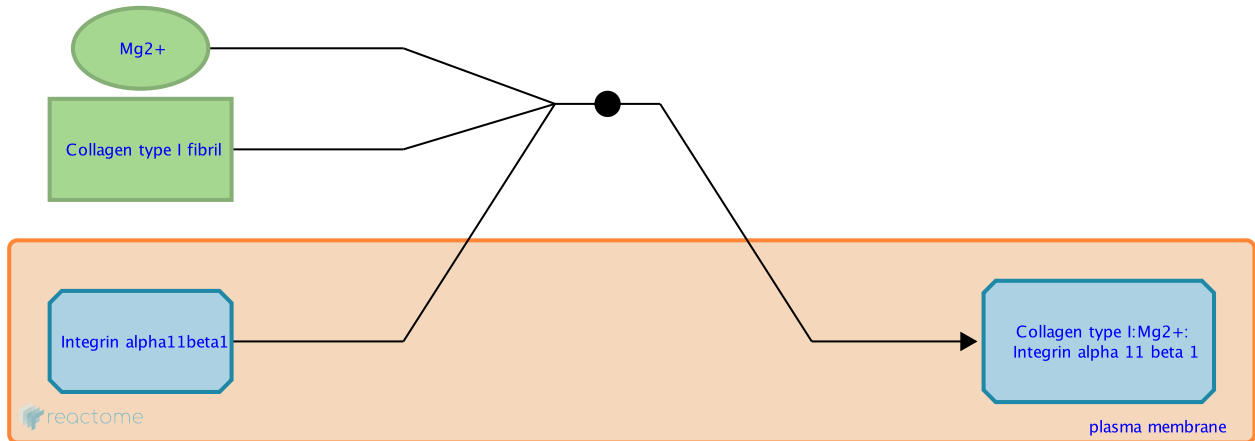## Collagen type I binds integrin alpha11beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216045

Type: binding

Compartments: extracellular region, plasma membrane

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.

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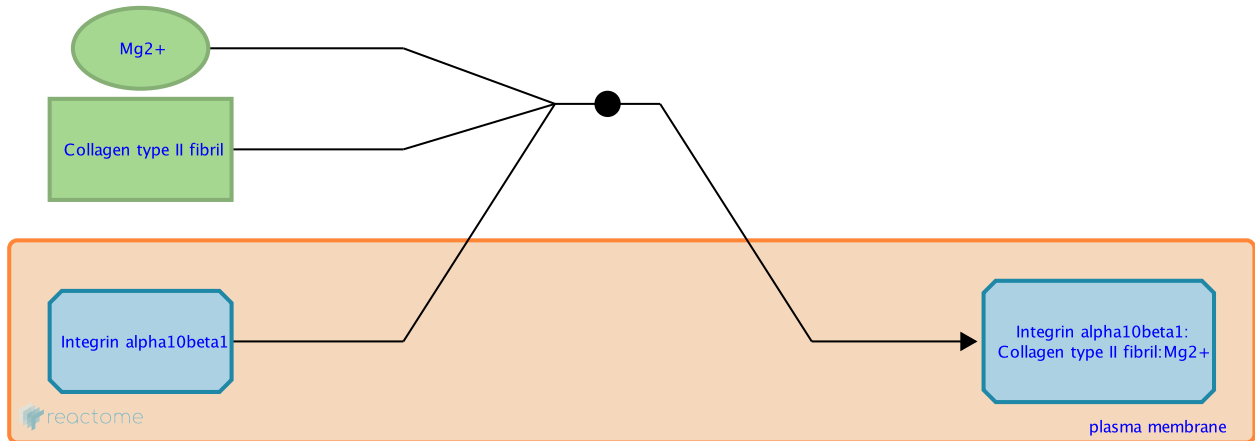## Collagen type II binds integrin alpha10beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216043

Type: binding

Compartments: extracellular region, plasma membrane

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.

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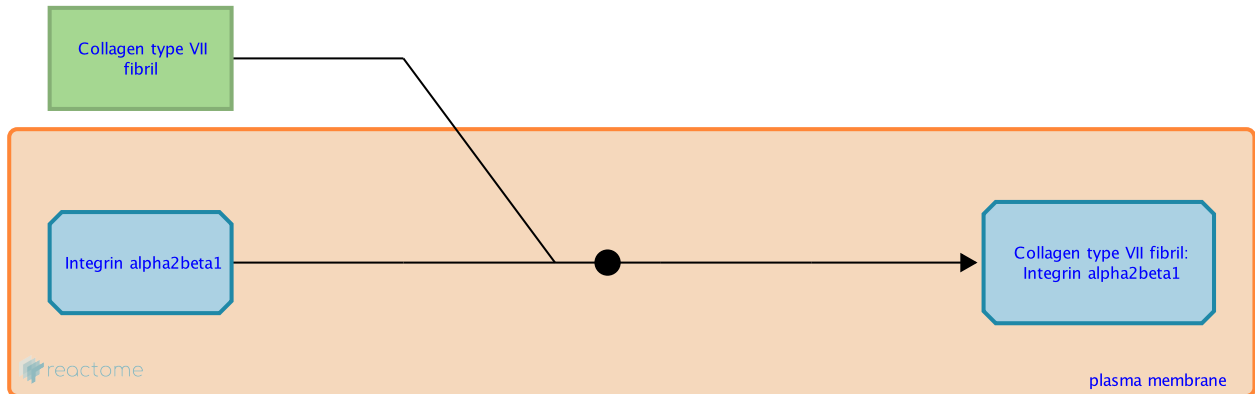## Collagen type VII binds integrin alpha2beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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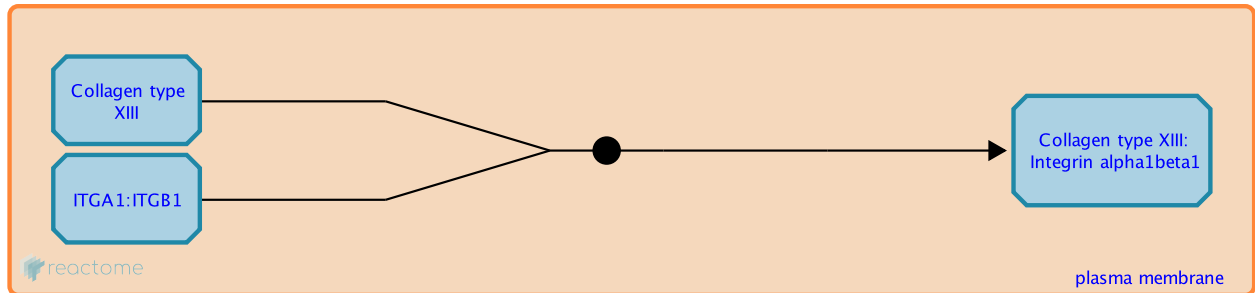## Collagen type XIII binds Integrin alpha1beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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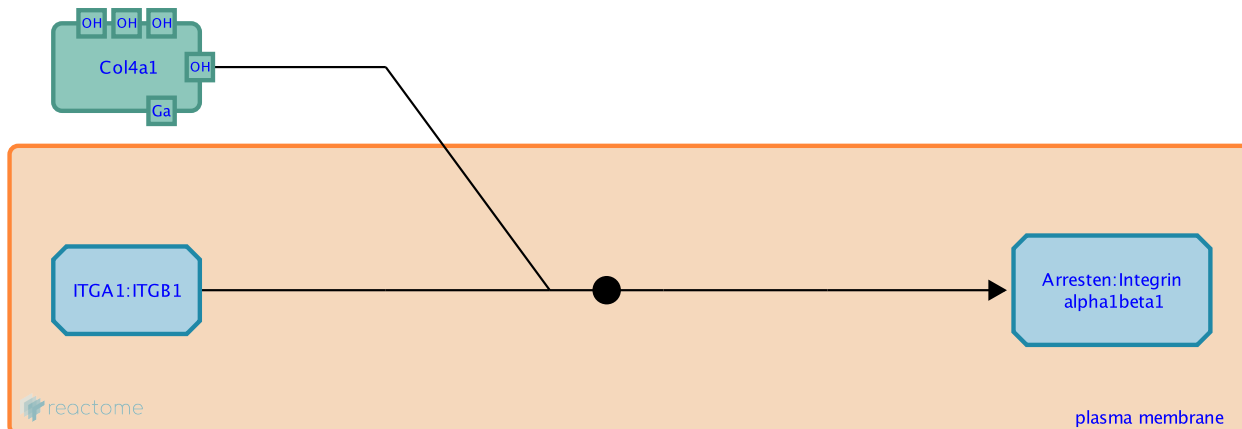
Arresten binds integrin alpha1beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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Endostatin binds integrin alphaVbeta3, alphaVbeta5, alpha3beta1, alpha5beta1 ↗
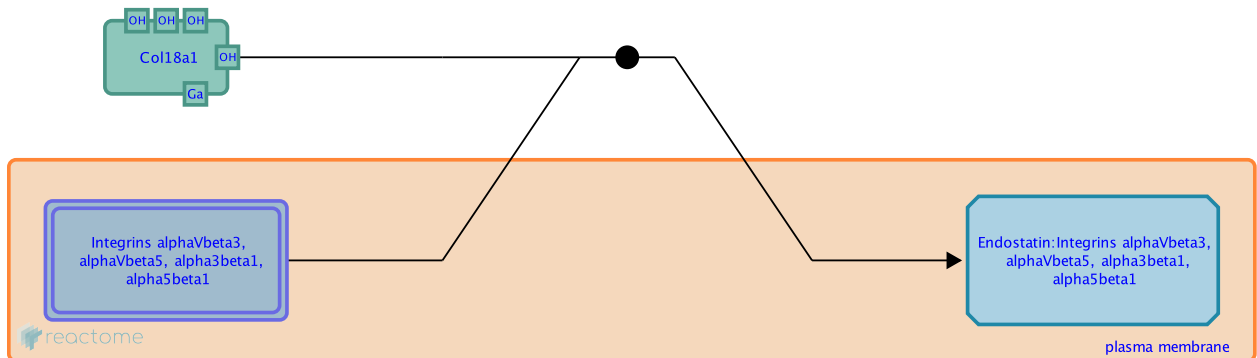
Location: Integrin cell surface interactions

Stable identifier: R-RNO-4088264

Type: binding

Compartments: extracellular region, plasma membrane

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.

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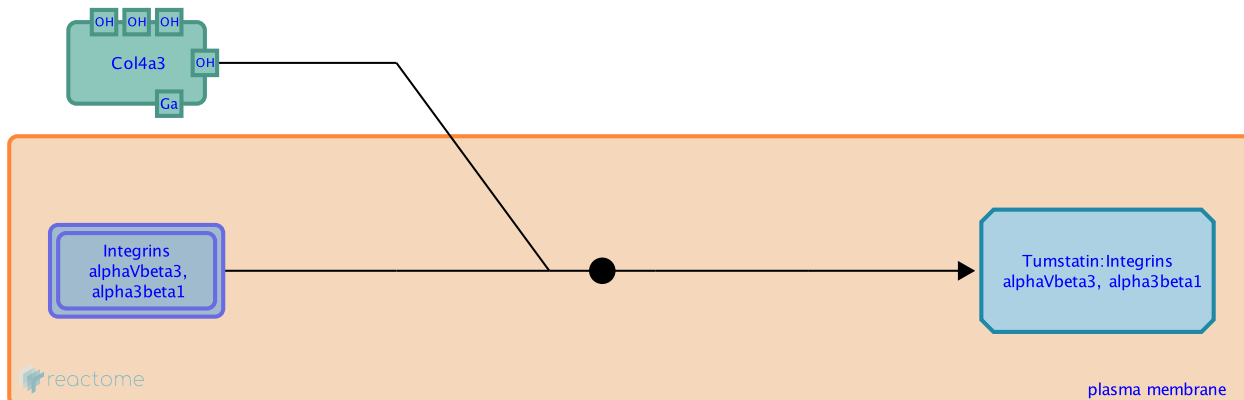# Tumstatin binds integrin alphaVbeta 3, alpha3beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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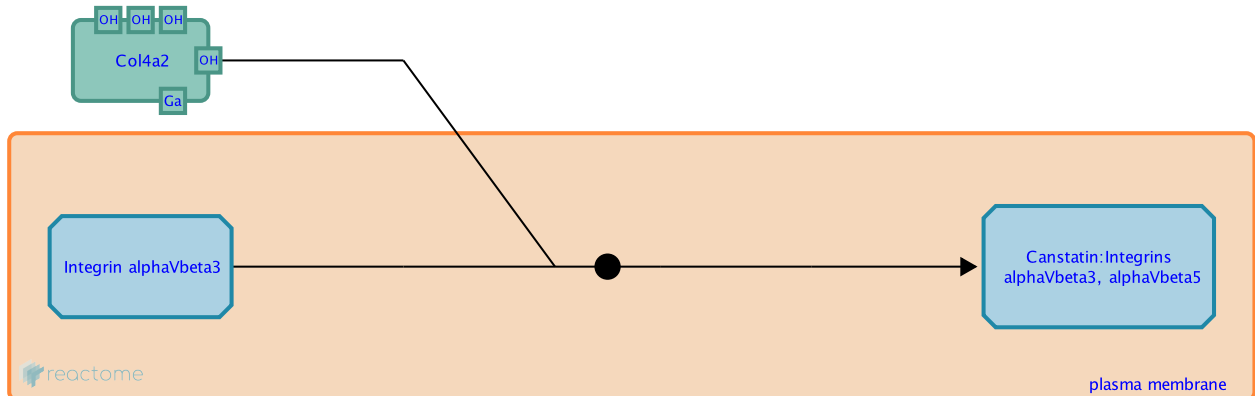## Canstatin binds integrins alphaVbeta3, alphaVbeta5 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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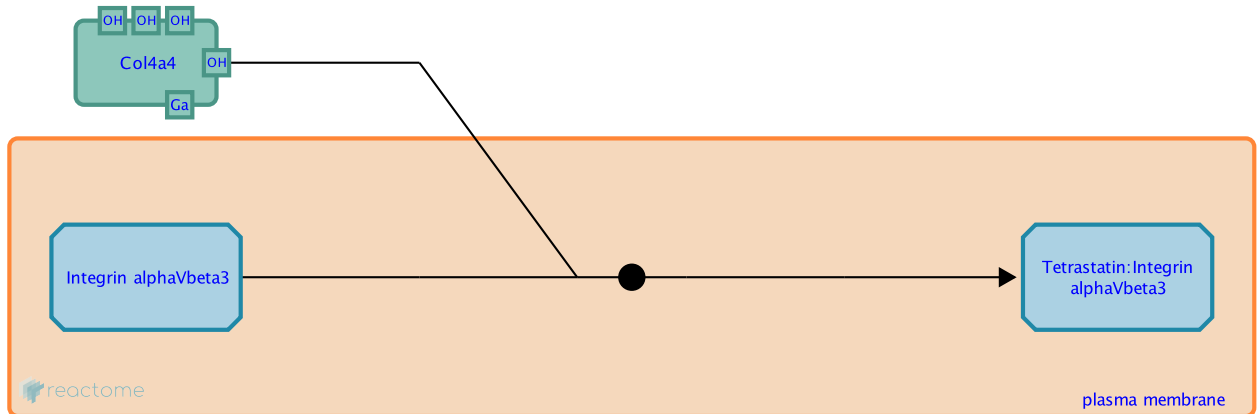# Tetrastatin binds integrin alphaVbeta3 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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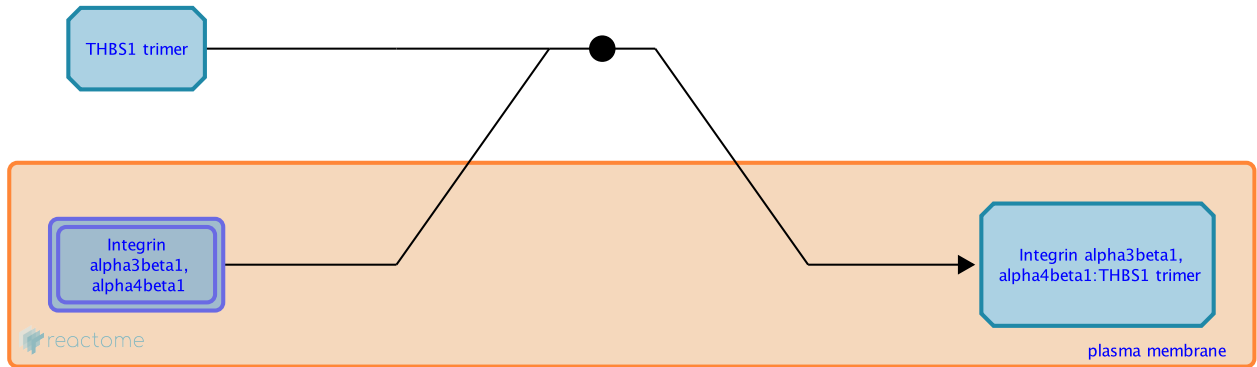## THBS1 (Thrombospondin-1) binds Integrin alpha3beta1, alpha4beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-265429

Type: binding

Compartments: extracellular region, plasma membrane

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.

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Integrins alpha4beta1, alpha8beta1, alphaVbeta1, alphaVbeta3, alphaVbeta6 bind Fibronectin matrix ↗
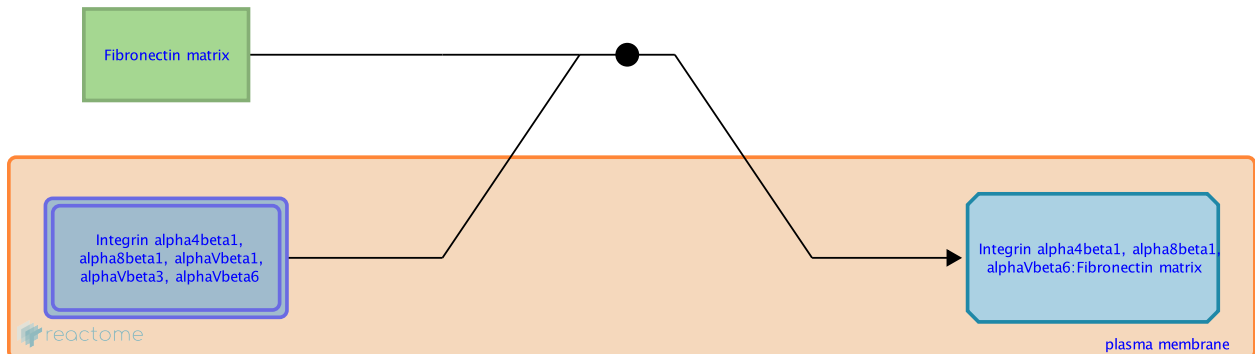
Location: Integrin cell surface interactions

Stable identifier: R-RNO-216050

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

SPP1 (osteopontin) binds integrin alpha5beta1, alpha9beta1 ↗
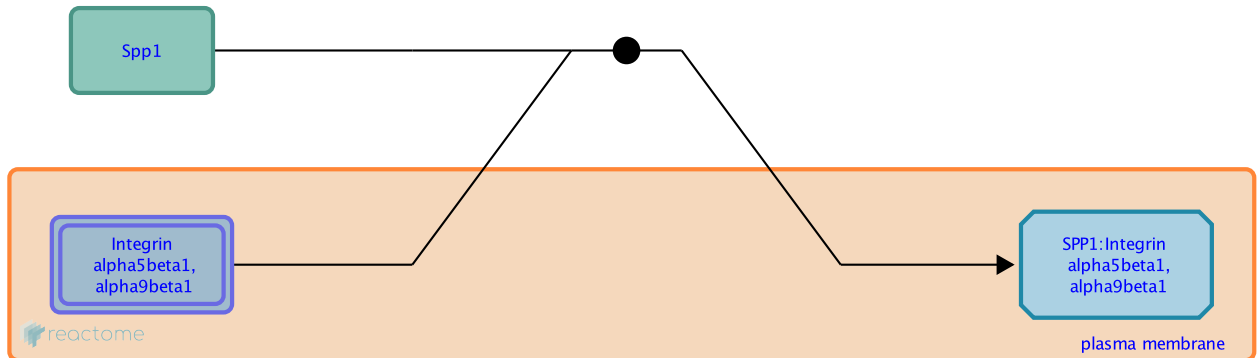
Location: Integrin cell surface interactions

Stable identifier: R-RNO-265424

Type: binding

Compartments: extracellular region, plasma membrane

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.

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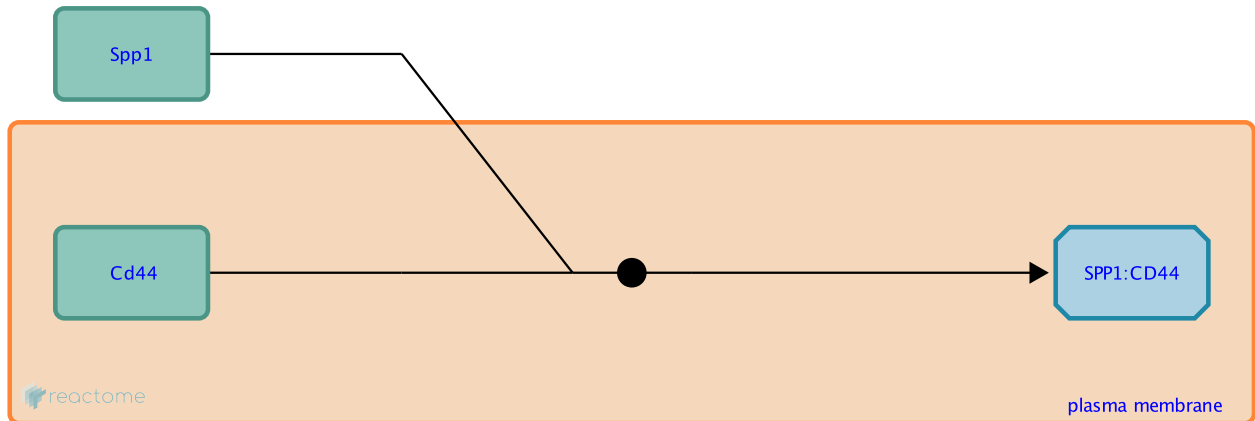
SPP1 (osteopontin) binds CD44 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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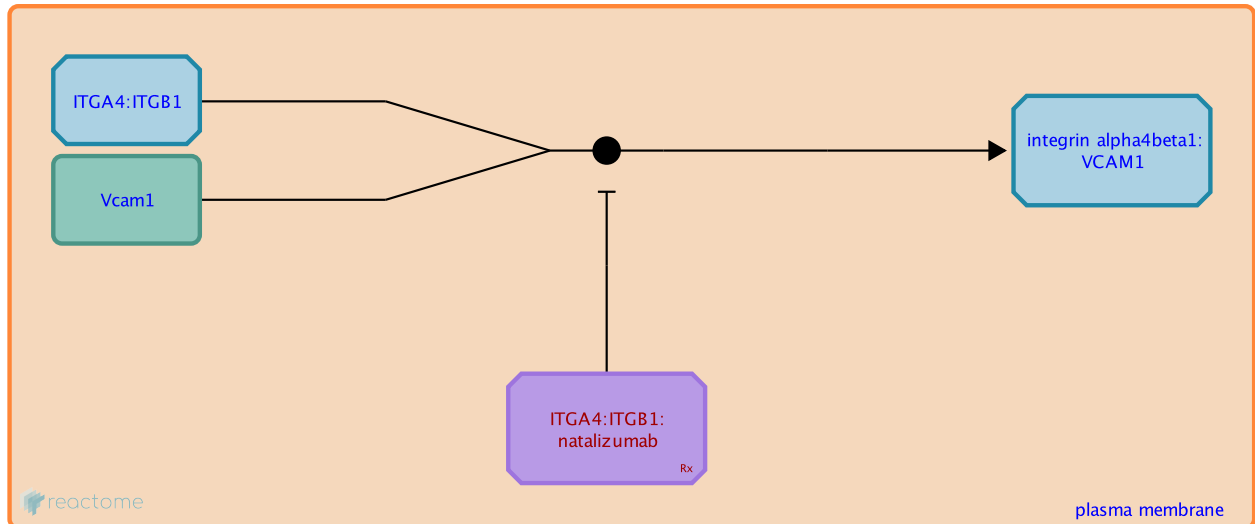
VCAM1 binds Integrin alpha4beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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Integrin alpha4beta1 binds JAM2:JAM3 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-202706

Type: binding

Compartments: plasma membrane

Inferred from: Integrin alpha4beta1 binds JAM2:JAM3 (Homo sapiens)
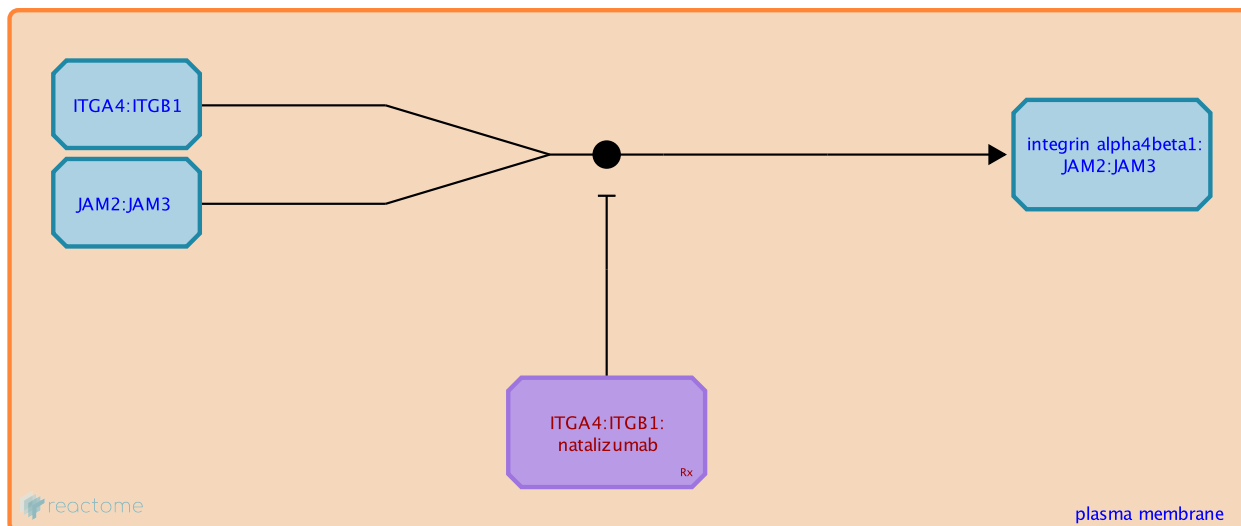
This event has been computationally inferred from an event that has been demonstrated in another species.

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.

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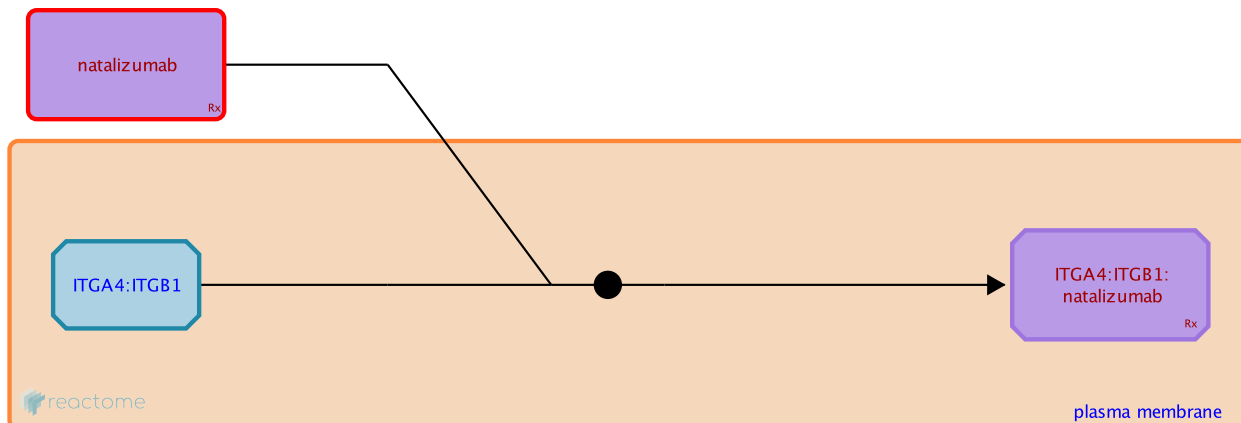
ITGA4:ITGB1 binds natalizumab ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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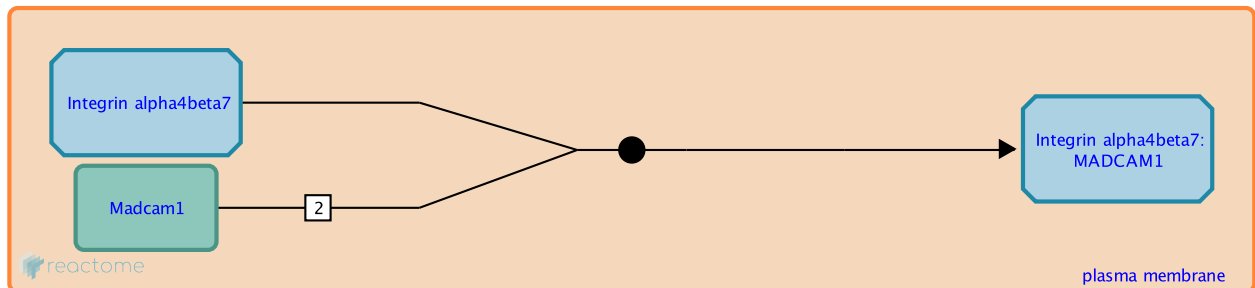# MADCAM1-1 binds Integrin alpha4beta7 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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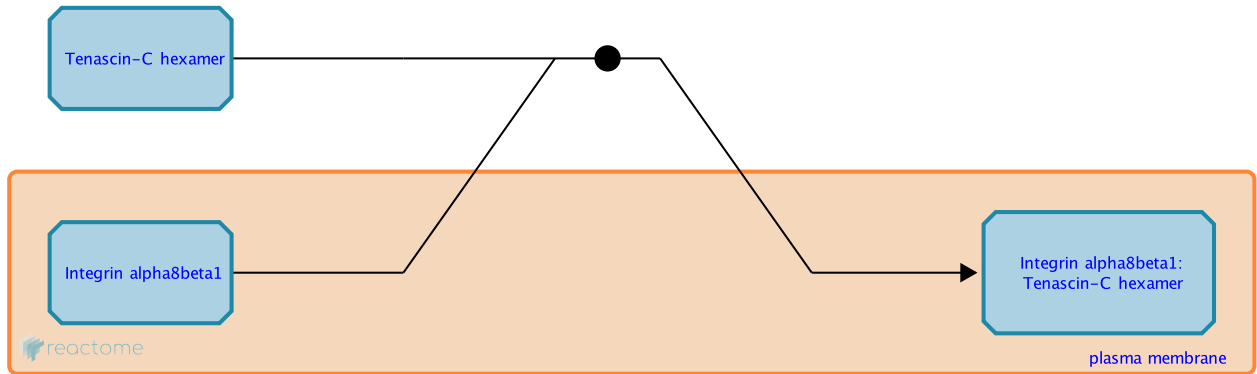## Interaction of integrin alpha8beta1 with Tenascin-C ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216064

Type: binding

Compartments: extracellular region, plasma membrane

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.

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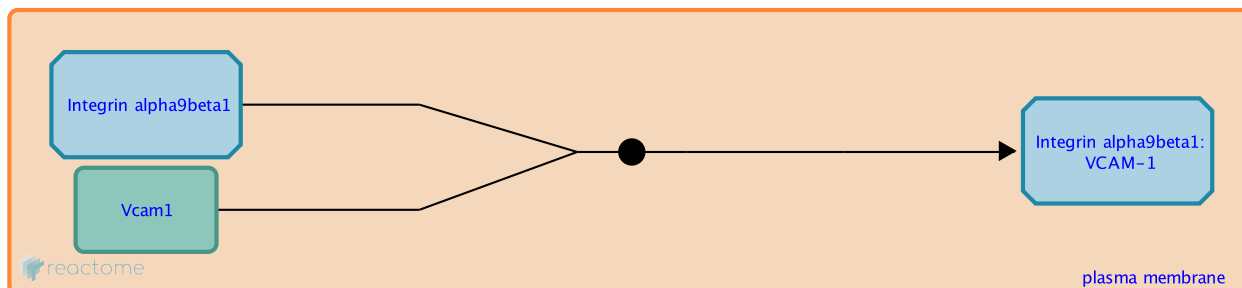## Interaction of integrin alpha9beta1 with VCAM1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

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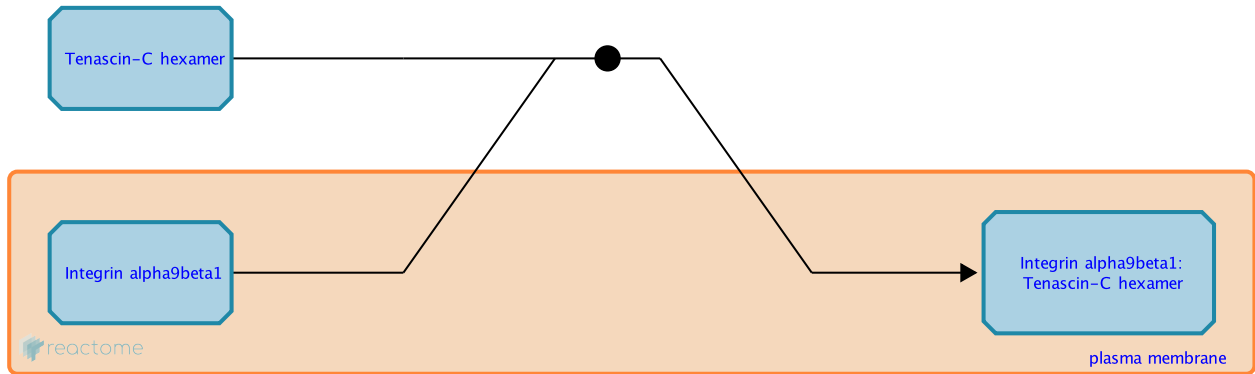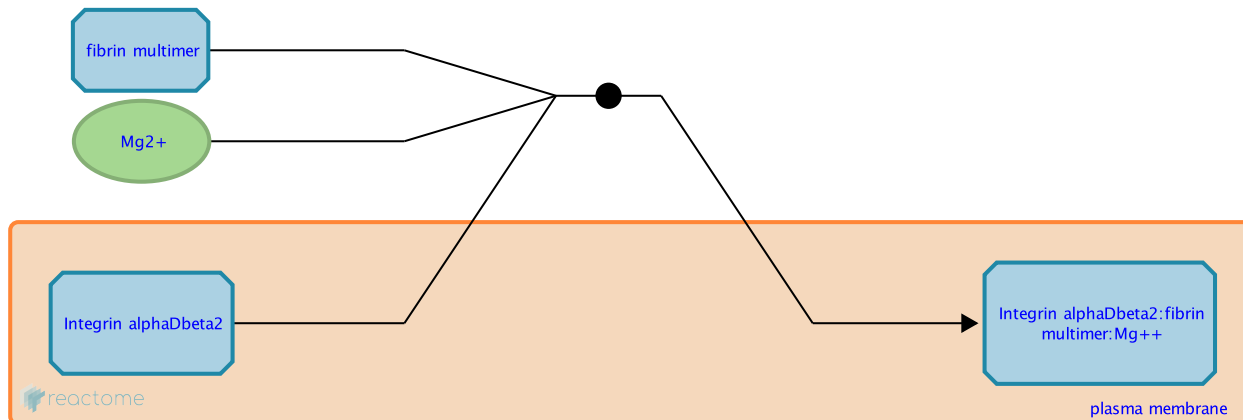## Interaction of integrin alpha9beta1 with Tenascin-C ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216068

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

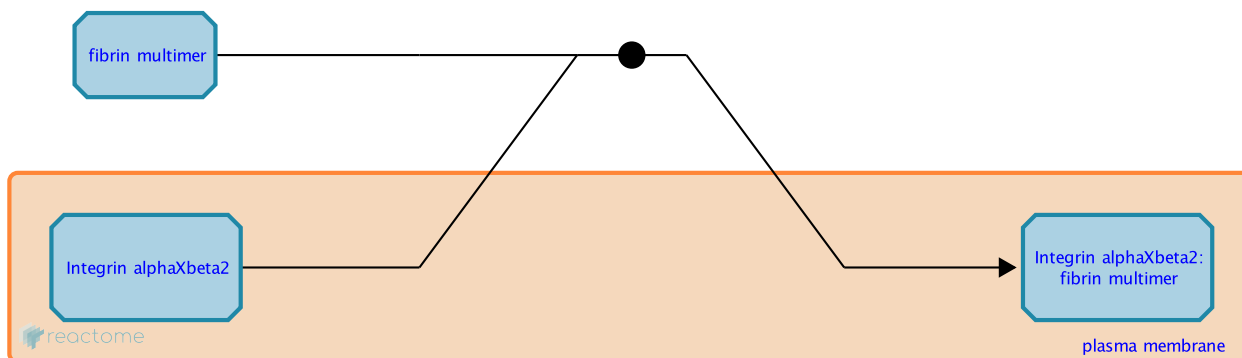## Interaction of integrin alphaDbeta2 with fibrin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216069

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

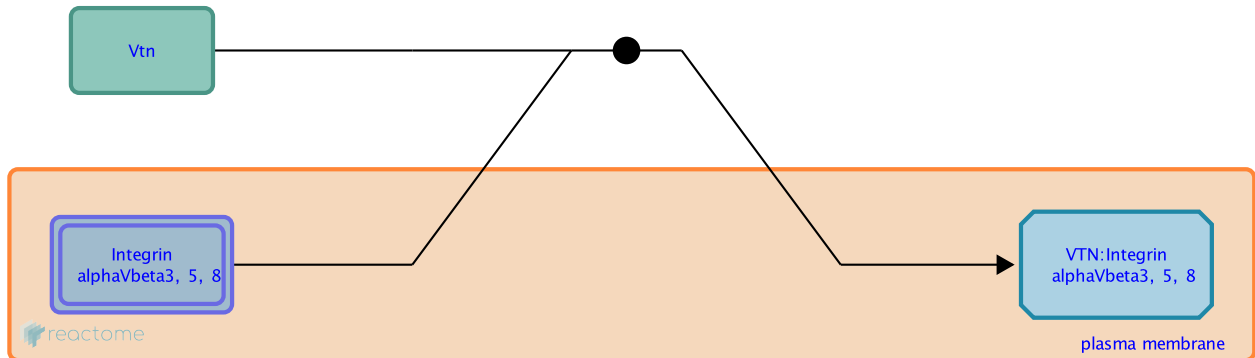# Interaction of integrin alphaXbeta2 with fibrin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216082

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

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

Location: Integrin cell surface interactions

Stable identifier: R-RNO-216076

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp
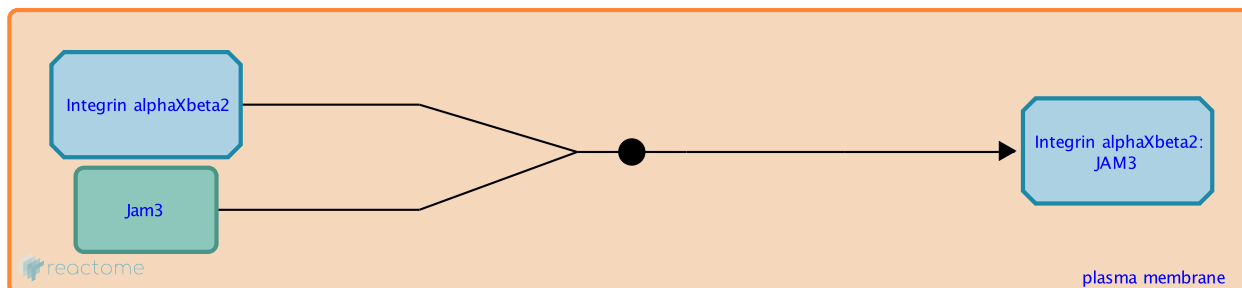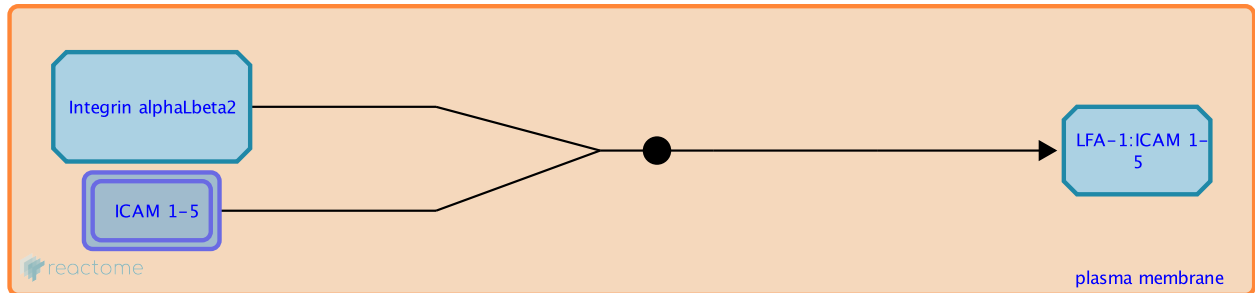
Integrin alphaXbeta2 binds JAM3 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

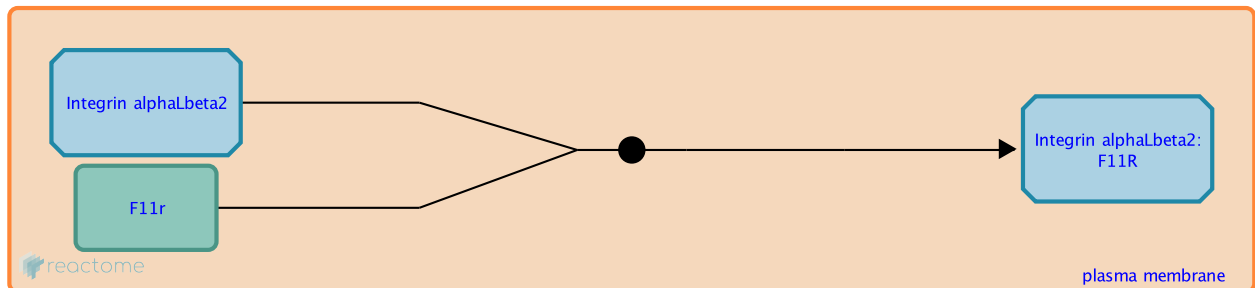## ICAM1-5 bind Integrin alphaLbeta2 (LFA-1) ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

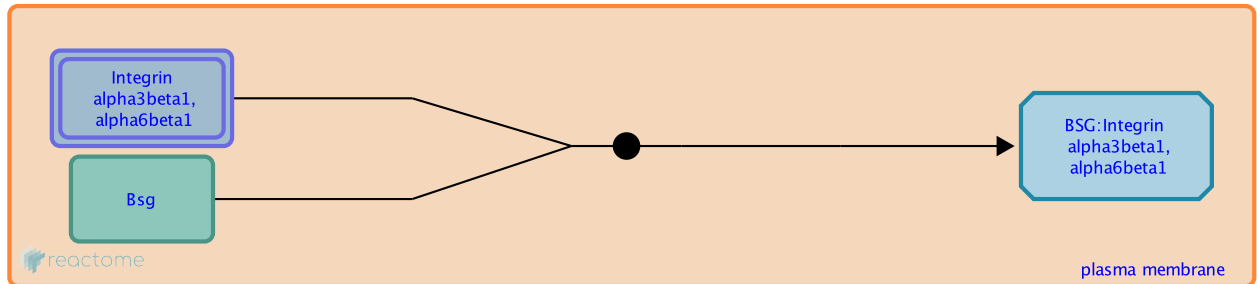## Integrin alphaLbeta2 (LFA-1) binds F11R (JAM-A) ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

BSG (basigin) binds Integrin alpha3beta1, alpha6beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

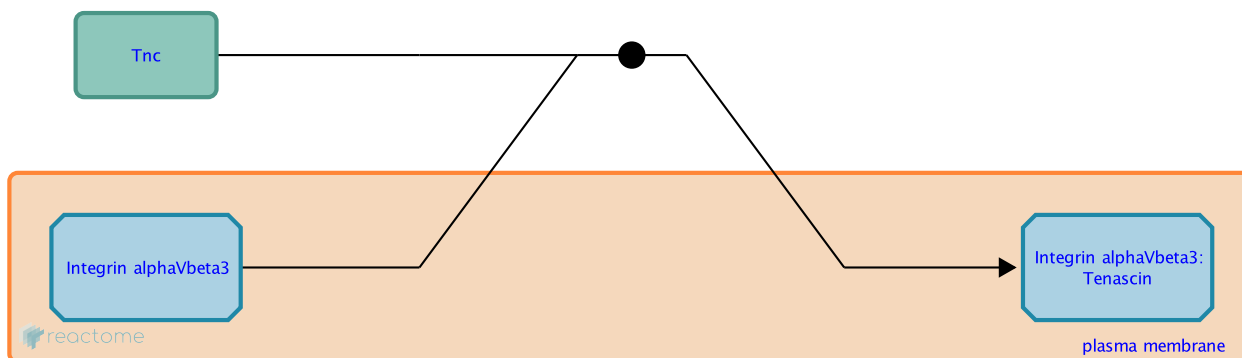## Interaction of integrin alphaVbeta3 with IPSP (Bone sialoprotein 2) ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-265427

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

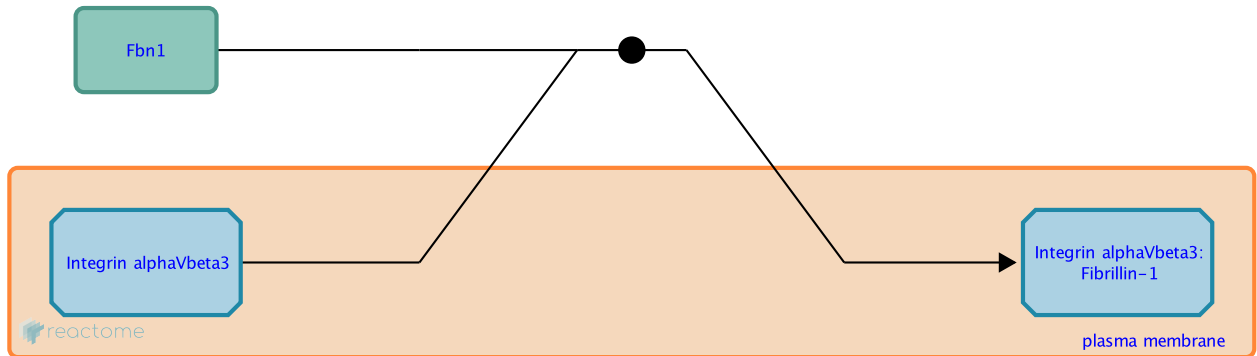## Interaction of integrin alphaVbeta3 with Tenascin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-265426

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

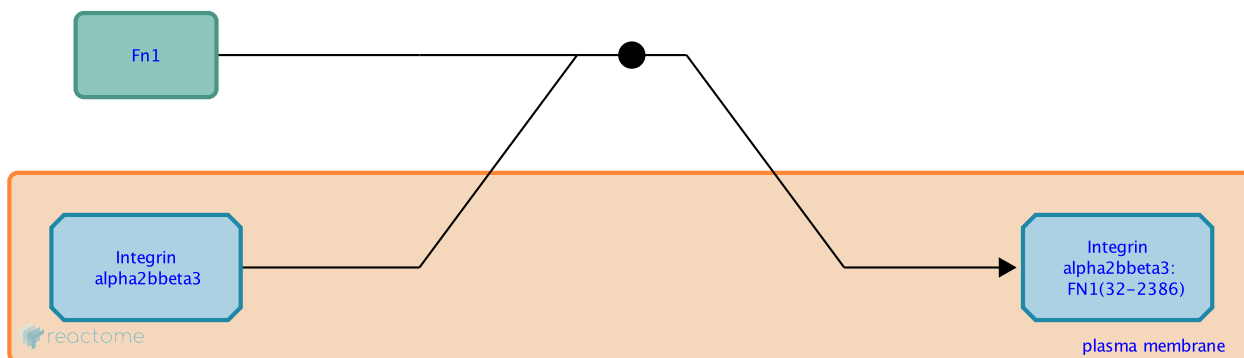## Interaction of integrin alphaVbeta3 with Fibrillin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-265423

Type: binding

Compartments: extracellular region, plasma membrane

Inferred from: Interaction of integrin alphaVbeta3 with Fibrillin (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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

Interaction of integrin alphaEbeta7 with Cadherin-1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

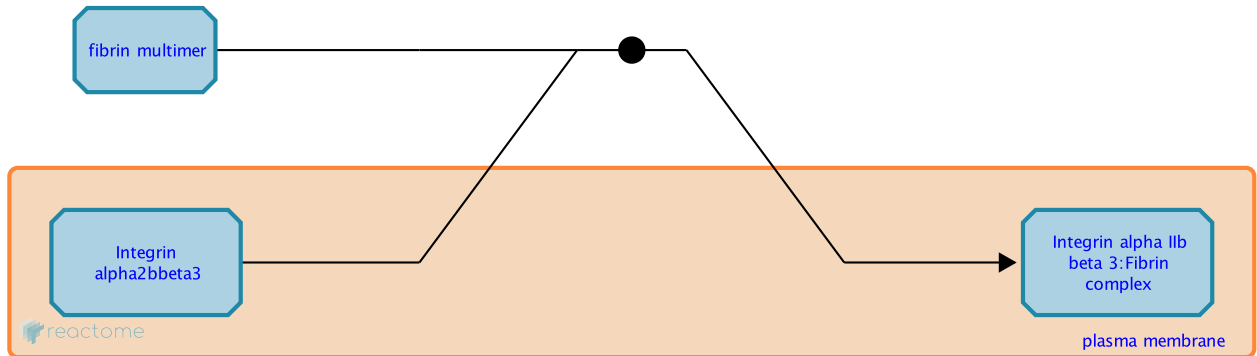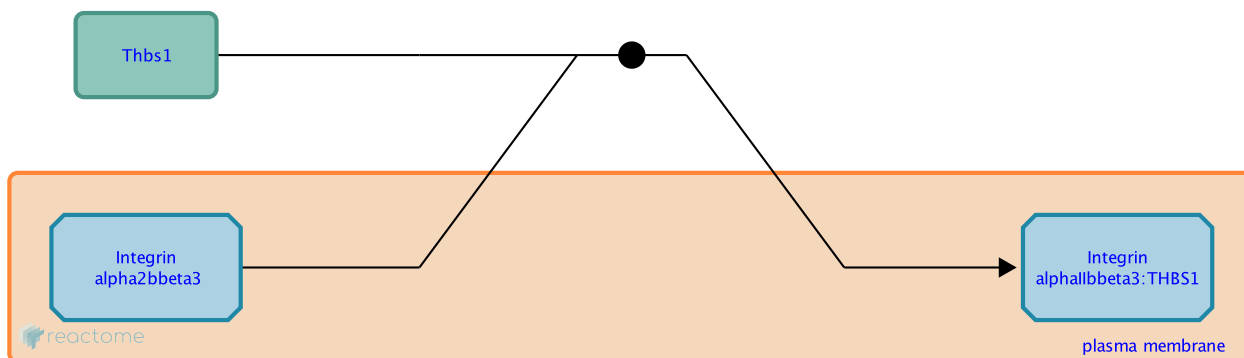## Interaction of integrin alphaIIbbeta3 with Fibronectin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-349593

Type: binding

Compartments: extracellular region, plasma membrane

Inferred from: Interaction of integrin alphaIIbbeta3 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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

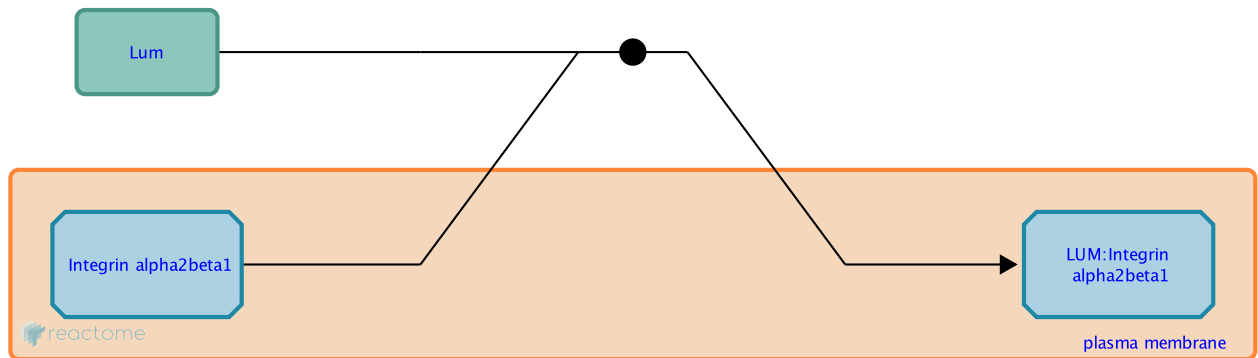## Adhesion of integrin alphaIIbbeta3 to fibrin network ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-114560

Type: binding

Compartments: extracellular region, plasma membrane

Inferred from: Adhesion of integrin alphaIIbbeta3 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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

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

Location: Integrin cell surface interactions

Stable identifier: R-RNO-349603

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

LUM (lumican) binds integrin alpha2beta1 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-4085133

Type: binding

Compartments: extracellular region, plasma membrane

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

COMP binds Integrin alpha5beta1, Integrin alphaVbeta3, CD47 ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-2426259

Type: binding

Compartments: extracellular region, plasma membrane

Inferred from: COMP binds Integrin alpha5beta1, Integrin alphaVbeta3, CD47 (Homo sapiens)
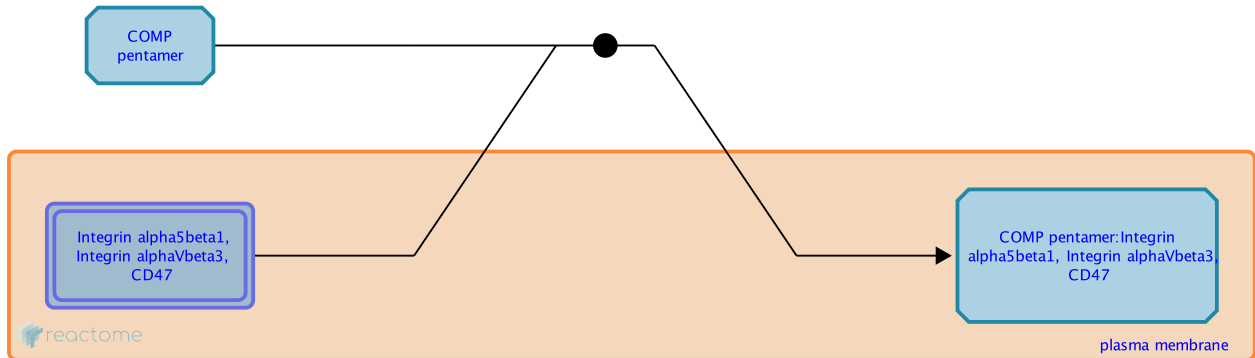
This event has been computationally inferred from an event that has been demonstrated in another species.

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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp
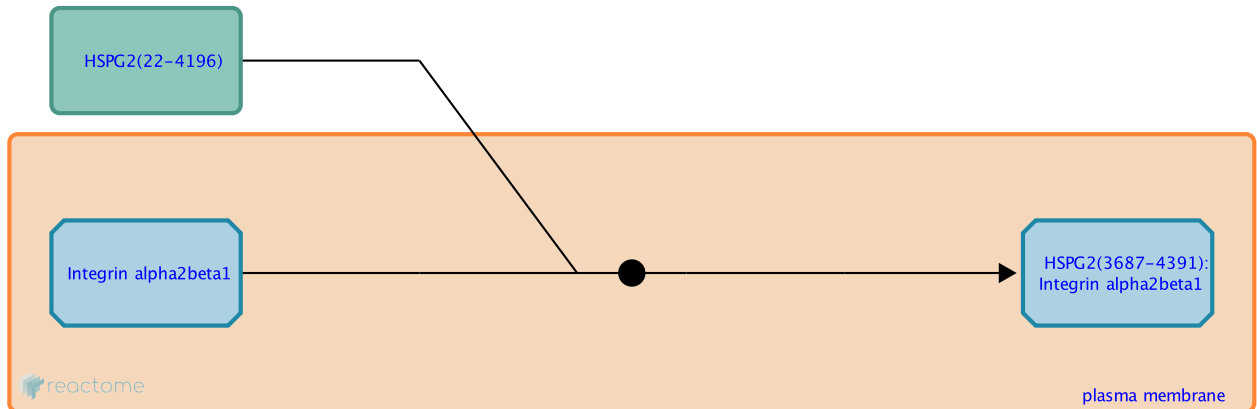
Endorepellin binds KDR (VEGFR2) ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-4088281

Type: binding

Compartments: plasma membrane, extracellular region

Inferred from: Endorepellin binds KDR (VEGFR2) (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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

Endorepellin binds alpha2beta1 integrin ↗

Location: Integrin cell surface interactions

Stable identifier: R-RNO-4088220

Type: binding

Compartments: plasma membrane, extracellular region

Inferred from: Endorepellin binds alpha2beta1 integrin (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.

<a href='/electronic_inference_compara.html' target = 'NEW'>More details and caveats of the event inference in Reactome. For details on PANTHER see also: <a href='http://www.pantherdb.org/about.jsp' target='NEW'>http://www.pantherdb.org/about.jsp

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