

Collagen type I binds integrin α - **pha11beta1**

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references

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Reactome database release: 69

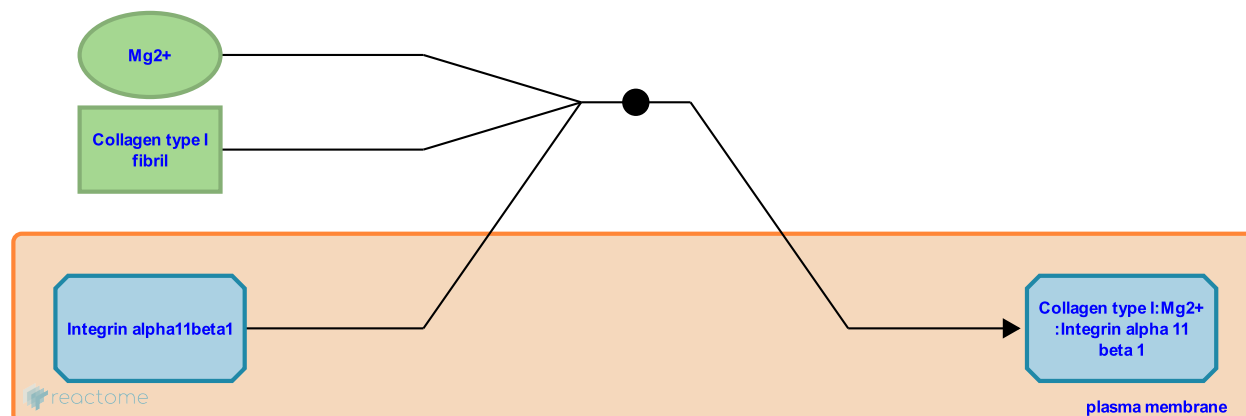
This document contains 1 reaction ([see Table of Contents](#))

Collagen type I binds integrin alpha11beta1 [↗](#)

Stable identifier: R-HSA-216045

Type: binding

Compartments: extracellular region, plasma membrane



The integrin alpha11beta1 along with alpha1beta1, alpha2beta1 and alpha10beta1 are referred to as a collagen receptor subgroup of the integrin family. Integrin alpha11beta1 binds preferentially to the fibril-forming collagen types I and II, binding to type III is weaker and collagens IV and VI are poor ligands (Zhang et al. 2003).

Literature references

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Zhang, WM., Kapyla, J., Puranen, JS., Knight, CG., Tiger, CF., Pentikainen, OT. et al. (2003). alpha 11beta 1 integrin recognizes the GFOGER sequence in interstitial collagens. *J Biol Chem*, 278, 7270-7. [↗](#)

Editions

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