

# Collagen type II binds integrin $\alpha$ - **pha10beta1**

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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

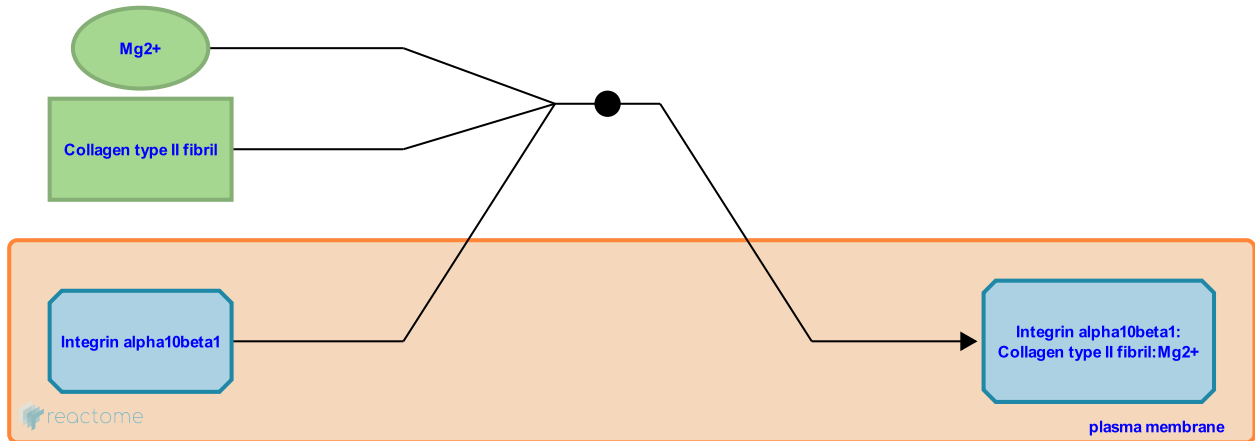
This document contains 1 reaction ([see Table of Contents](#))

## Collagen type II binds integrin alpha10beta1 [↗](#)

**Stable identifier:** R-HSA-216043

**Type:** binding

**Compartments:** extracellular region, plasma membrane



The integrin alpha10beta1 is a collagen type II-binding integrin on chondrocytes. This integrin is of great importance during chondrogenesis. alpha10 binds the collagen-II with its I domain displaying similar binding properties as alpha1 I domain.

### Literature references

Bengtsson, T., Aszodi, A., Nicolae, C., Hunziker, EB., Lundgren-Akerlund, E., Fässler, R. (2005). Loss of alpha10beta1 integrin expression leads to moderate dysfunction of growth plate chondrocytes. *J Cell Sci*, 118, 929-36. [↗](#)

### Editions

2008-03-11	Edited	Garapati, P V.
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