VTN (vitronectin) binds Integrin alphaVbeta3, alphaVbeta5, alphaVbeta8

Garapati, P V., Geiger, B., Horwitz, AR., Humphries, MJ., Hynes, R., Jupe, S., Yamada, KM.
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


Reactome database release: 74

This document contains 1 reaction (see Table of Contents)

https://www.reactome.org
VTN (vitronectin) binds Integrin alphaVbeta3, alphaVbeta5, alphaVbeta8

**Stable identifier:** R-HSA-216076

**Type:** binding

**Compartments:** extracellular region, plasma membrane

Integrin alphaVbeta3 is highly expressed on osteoclasts, bone resorbing cells and is upregulated during vascular damage, angiogenesis and certain type of malignancies. It binds to vitronectin by recognizing the conserved RGD sequence within the N-terminal region. Integrin alphaVbeta3 plays an important role in signal transduction and regulation of osteoclast function. The integrin alphaVbeta5 receptor also interacts with vitronectin, promoting cell spreading. Integrin alphaVbeta8 can bind vitronectin as well as fibrin.

**Literature references**


**Editions**

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