

MigFilin associates with Filamin and F-actin

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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

- 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. [↗](#)
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Reactome database release: 88

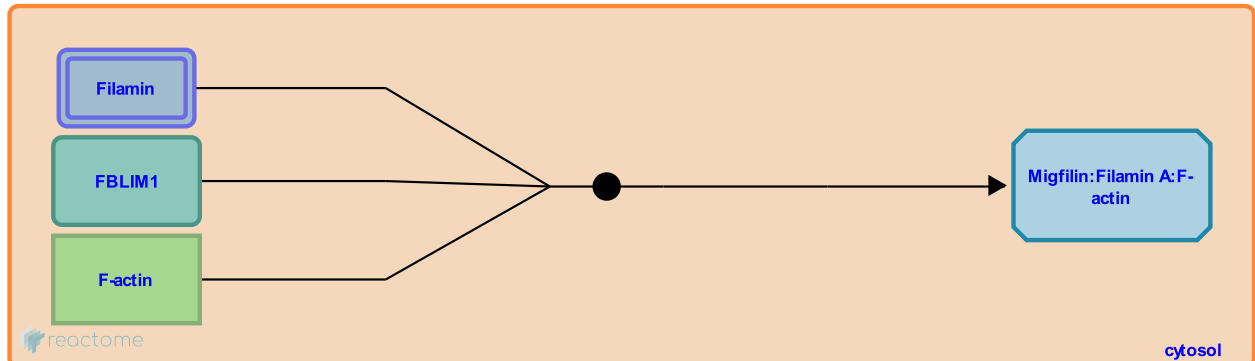
This document contains 1 reaction ([see Table of Contents](#))

MigFilin associates with Filamin and F-actin [↗](#)

Stable identifier: R-HSA-430347

Type: binding

Compartments: cytosol



Migfilin associates with actin filaments as a result of its interaction with filamin (Tu et al., 2003). Migfilin associates with actin filaments and loss of migfilin decreases the level of F-actin suggesting that, in addition to providing an anchoring site for actin filaments at cell-ECM adhesions, migfilin also functions in the regulation of filamin-mediated cross-linking and stabilization of actin filaments (Tu et al., 2003).

Literature references

Shi, X., Tu, Y., Chen, K., Wu, C., Wu, S. (2003). Migfilin and Mig-2 link focal adhesions to filamin and the actin cytoskeleton and function in cell shape modulation. *Cell*, 113, 37-47. [↗](#)

Editions

2009-10-12	Authored	Matthews, L.
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