

Interaction of Tie2 and Shp2

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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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Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)

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Reactome database release: 88

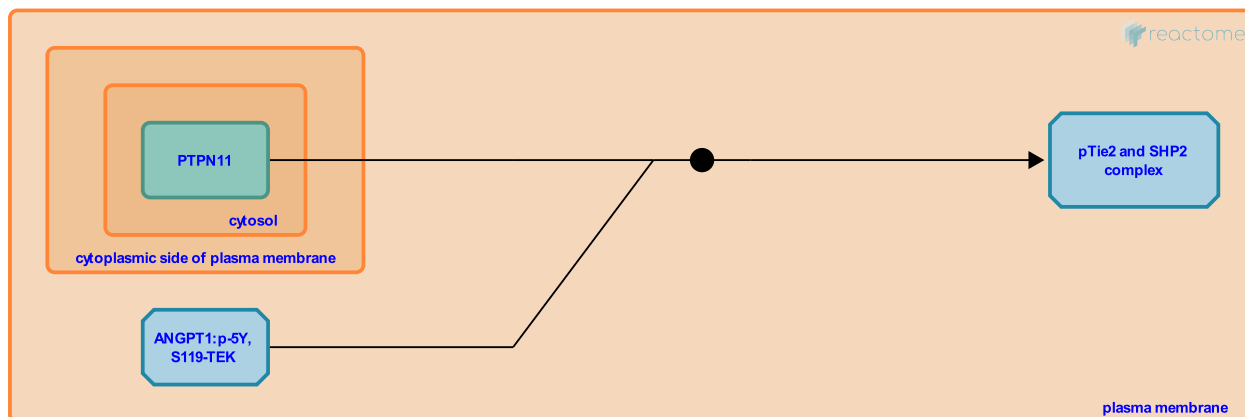
This document contains 1 reaction ([see Table of Contents](#))

Interaction of Tie2 and Shp2 [↗](#)

Stable identifier: R-HSA-204873

Type: binding

Compartments: plasma membrane, cytosol



Shp2 interact with Tyr816 in the juxtamembrane region and Tyr1108 and Tyr1113, respectively, in the C-terminal tail region of Tie2/Tek.

Literature references

Alitalo, K., Daly, R., Bouchard, D., Jones, J., Master, Z., Sasaki, H. et al. (1999). Identification of Tek/Tie2 binding partners. Binding to a multifunctional docking site mediates cell survival and migration. *J Biol Chem*, 274, 30896-905. [↗](#)

Dumont, DJ., Jones, N. (1998). The Tek/Tie2 receptor signals through a novel Dok-related docking protein, Dok-R. *Oncogene*, 17, 1097-108. [↗](#)

Editions

2008-03-05	Authored	de Bono, B., Garapati, P V.
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