

# Release of CSK from SRC

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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. [↗](#)

Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

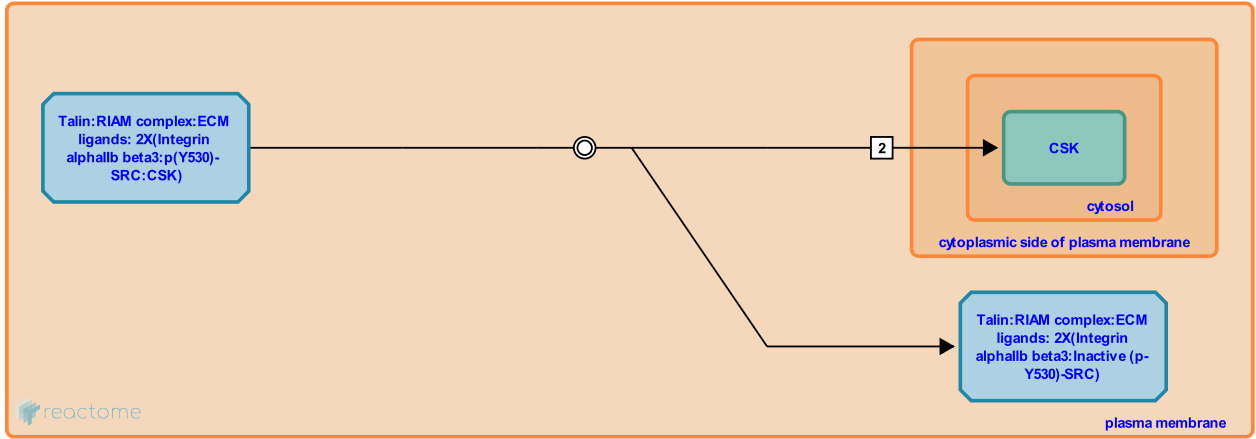
This document contains 1 reaction ([see Table of Contents](#))

Release of CSK from SRC ↗

Stable identifier: R-HSA-377644

Type: dissociation

Compartments: cytosol, plasma membrane



CSK bound to integrin alphaIIb beta3 negatively regulates SRC by phosphorylating the Tyr-530. Platelet adhesion to fibrinogen causes the disassociation of CSK from alphaIIb beta3 complex.

Literature references

Nakagawa, H., Yamamoto, T., Okada, M., Yamanashi, Y., Nada, S. (1991). CSK: a protein-tyrosine kinase involved in regulation of src family kinases. *J Biol Chem*, 266, 24249-52. ↗

Shattil, SJ. (2005). Integrins and Src: dynamic duo of adhesion signaling. *Trends Cell Biol*, 15, 399-403. ↗

Editions

2008-06-16	Authored, Edited	Garapati, P V.
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