

# SYK binds IL2RB

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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: 75

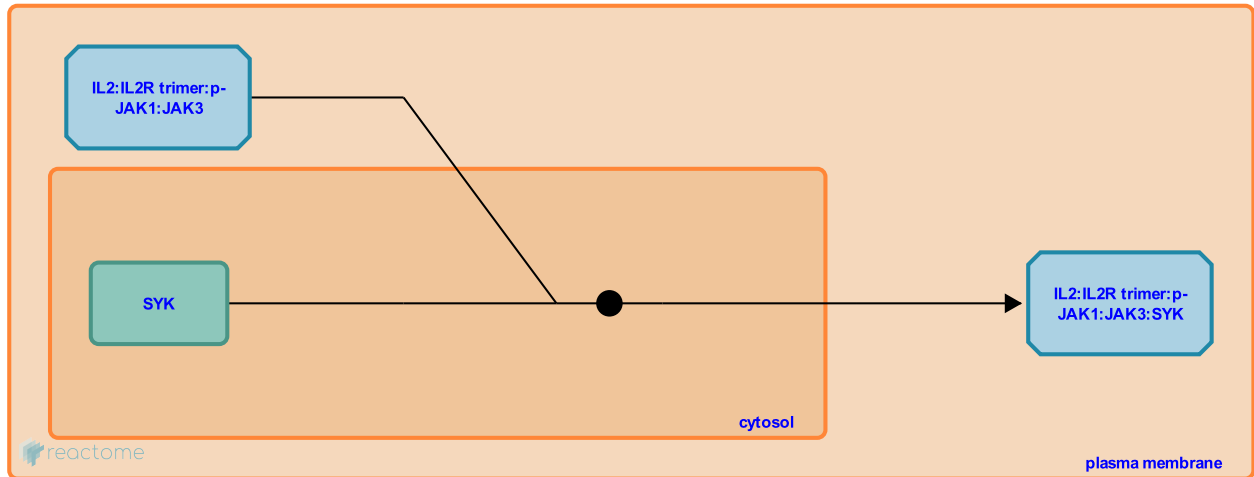
This document contains 1 reaction ([see Table of Contents](#))

## SYK binds IL2RB ↗

**Stable identifier:** R-HSA-508292

**Type:** binding

**Compartments:** cytosol, plasma membrane, extracellular region



Syk binds to the serine-rich (aa 267 to 322) S region of IL2RB and becomes activated upon IL-2 stimulation (Minami et al. 1995).

Syk is shown here binding with the IL2:IL2RB trimer:p-JAK1:JAK3 complex but it may become associated at an earlier stage of receptor activation.

### Literature references

Minami, Y., Nakagawa, Y., Kawahara, A., Miyazaki, T., Sada, K., Yamamura, H. et al. (1995). Protein tyrosine kinase Syk is associated with and activated by the IL-2 receptor: possible link with the c-myc induction pathway. *Immunity*, 2, 89-100. ↗

### Editions

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