SRC family kinases phosphorylate ERBB2

D'Eustachio, P., Neckers, L.M., Orlic-Milacic, M., Xu, W.
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: 75

This document contains 1 reaction (see Table of Contents)
**SRC family kinases phosphorylate ERBB2**

**Stable identifier:** R-HSA-1963586

**Type:** transition

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

Dissociation of HSP90 from ERBB2 upon formation of ERBB2 heterodimers (with either EGFR, ERBB3 or ERBB4) enables phosphorylation of ERBB2 on the tyrosine residue Y877, mediated by one of SRC family kinases - SRC, FYN or YES1. Although not a mandatory prerequisite of ERBB2 catalytic activity, the phosphorylation at Y877 significantly increases the kinase activity of ERBB2.

**Literature references**


**Editions**

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