ERBB4s80 binds to 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**


**ERBB4s80 binds to SRC**

**Stable identifier:** R-HSA-9612219

**Type:** binding

**Compartments:** plasma membrane, cytosol

 SRC tyrosine kinase, activated by EGFR signaling, binds to the cleaved intracellular fragment of ERBB4, ERBB4s80 (E4ICD), released in response to ERBB4 activation by NRG1. Tyrosine phosphorylation of ERBB4s80 is needed for SRC binding. It is not clear whether tyrosine phosphorylation sites are auto-phosphorylated or phosphorylated by SRC. SRC binding prevents translocation of ERBB4s80 to the nucleus (Ishibashi et al. 2012).

**Literature references**


**Editions**

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