TFAP2A, (TFAP2B, TFAP2C) homo- and heterodimers and YY1 stimulate ERBB2 gene expression

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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**


Reactome database release: 69

This document contains 1 reaction (see Table of Contents)
Binding of AP-2 transcription factors TFAP2A (AP-2 alpha), TFAP2B (AP-2 beta) and TFAP2C (AP-2 gamma) to AP-2 response elements in the ERBB2 gene promoter stimulates ERBB2 transcription, with TFAP2B having the weakest effect (Bosher et al. 1996). Association of YY1 transcription factor with TFAP2A (and, possibly, TFAP2B and TFAP2C) significantly increases the ERBB2 gene transcription rate (Begon et al. 2005).

**Literature references**


**Editions**

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