

# PRKCB gene expression is stimulated by RUNX1

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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: 70

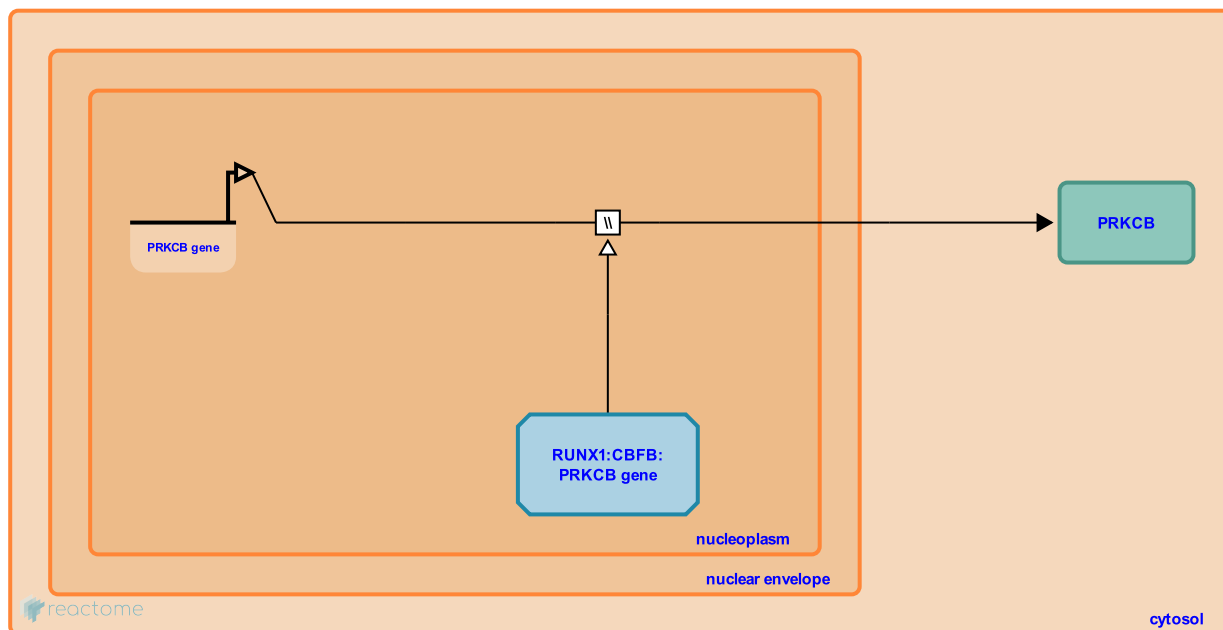
This document contains 1 reaction ([see Table of Contents](#))

## PRKCB gene expression is stimulated by RUNX1 [↗](#)

**Stable identifier:** R-HSA-8939066

**Type:** omitted

**Compartments:** nucleoplasm, cytosol



Binding of the RUNX1:CBFB complex to the promoter of the PRKCB gene, encoding Protein kinase C-beta, stimulates PRKCB transcription. RUNX1-mediated upregulation of PRKCB expression may contribute to apoptosis of myeloid cells (Hug et al. 2004).

### Literature references

Hug, BA., Ahmed, N., Robbins, JA., Lazar, MA. (2004). A chromatin immunoprecipitation screen reveals protein kinase Cbeta as a direct RUNX1 target gene. *J. Biol. Chem.*, 279, 825-30. [↗](#)

### Editions

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