

BCR-FGFR1 fusion:GRB2:p-GAB2:PIK3R1 binds PIK3CA

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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](#))

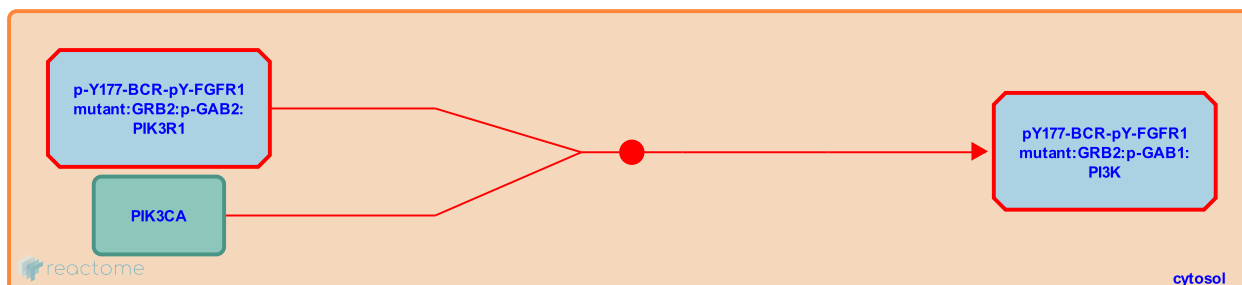
BCR-FGFR1 fusion:GRB2:p-GAB2:PIK3R1 binds PIK3CA [↗](#)

Stable identifier: R-HSA-1839102

Type: binding

Compartments: cytosol

Diseases: cancer, chronic myeloid leukemia



Activation of the PI3K pathway has been demonstrated in the case of ZMYM2-FGFR1 (Chen, 2004), BCR-FGFR1 (Demiroglu, 2001) and FOP-FGFR1 (Guasch, 2001), and is presumed to occur to a greater or lesser extent in other FGFR1 fusions as well (reviewed in Jackson, 2010). Activation of the PI3K pathway suggests that the PIK3CA catalytic subunit must be recruited to the fusion protein.

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Editions

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