RAC1:GTP binds NOX3 complex

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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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Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res, 46*, D649-D655. ↗

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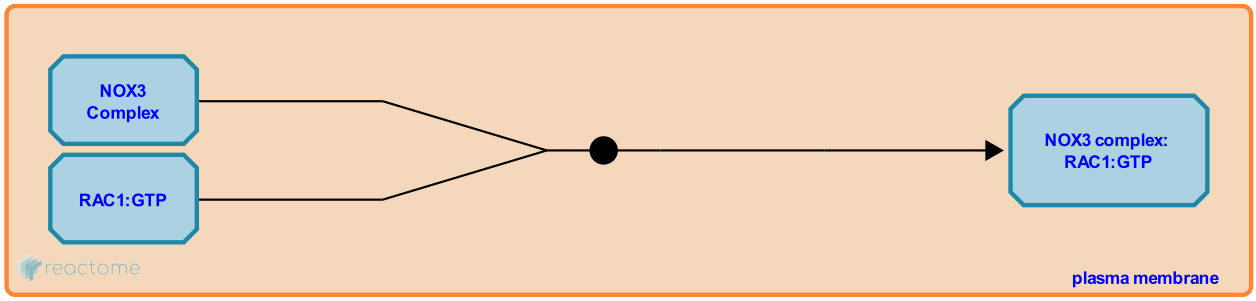
Stable identifier: R-HSA-5668735

Type: binding

Compartments: plasma membrane



Activated RAC1 (RAC1:GTP) binds to the NADPH oxidase NOX3 complex, consisting of NOX3, CYBA (p22phox), NCF1 (p47phox) and NCF2 (p67phox) or NOXA1. RAC1 directly interacts with a conserved region of NOX3 and with tetratricopeptide repeats of NCF2 or NOXA1 (Ueyama et al. 2006, Miyano and Sumimoto 2007, Kao et al. 2008).

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Editions

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