

ADORA2B:Ade-Rib binds heterometric G- protein Gs

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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: 88

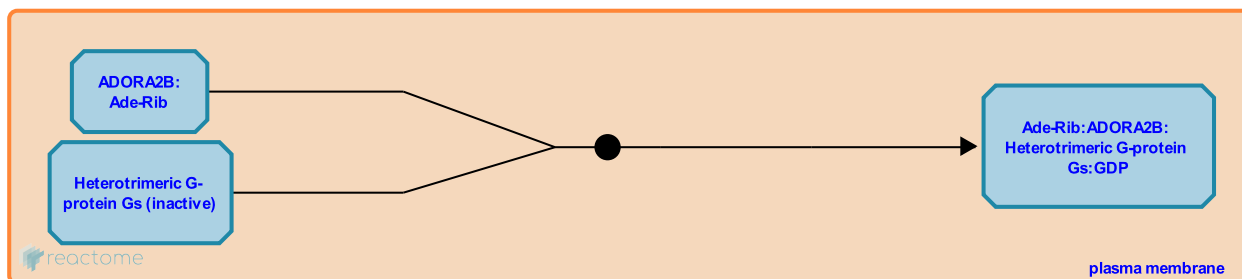
This document contains 1 reaction ([see Table of Contents](#))

ADORA2B:Ade-Rib binds heterometric G-protein Gs [↗](#)

Stable identifier: R-HSA-9660828

Type: binding

Compartments: plasma membrane



The role of the guanine nucleotide-binding protein G alpha-s subunit (G alpha-s) (Kozasa T et al, 1988) is to activate adenylate cyclase, which, in turn, produces cAMP, which, in turn, activates cAMP-dependent protein kinase.

Literature references

Feldman, DS., Luttrell, LM., Pierce, KL., Kelly, F., Koch, WJ., Rapacciuolo, A. et al. (2002). Selective inhibition of heterotrimeric Gs signaling. Targeting the receptor-G protein interface using a peptide minigene encoding the Galpha(s) carboxyl terminus. *J Biol Chem*, 277, 28631-40. [↗](#)

Editions

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