ACVR2A/B (ActRIIA/B) phosphorylates ACVR1B (ActRIB, ALK4) in response to Activin

Chen, YG., May, B., Peng, C.
**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: 73

This document contains 1 reaction (see Table of Contents)
ACVR2A/B (ActRIIA/B) phosphorylates ACVR1B (ActRIB, ALK4) in response to Activin

Stable identifier: R-HSA-1181149

Type: transition

Compartments: plasma membrane, cytosol

Upon binding Activin A (INHBA:INHBA), Activin AB (INHBA:INHBB), or Activin B (INHBB:INHBB), the type II component of the activin receptor (ACVR2A or ACVR2B) phosphorylates the type I component ACVR1B (ALK4) at multiple serine and threonine residues within the GS domain (Attisano et al. 1996, Willis et al. 1996, Willis and Mathews 1997, Zhou et al. 2000).

Literature references


Editions

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