APAF1:CYCS binds APIP

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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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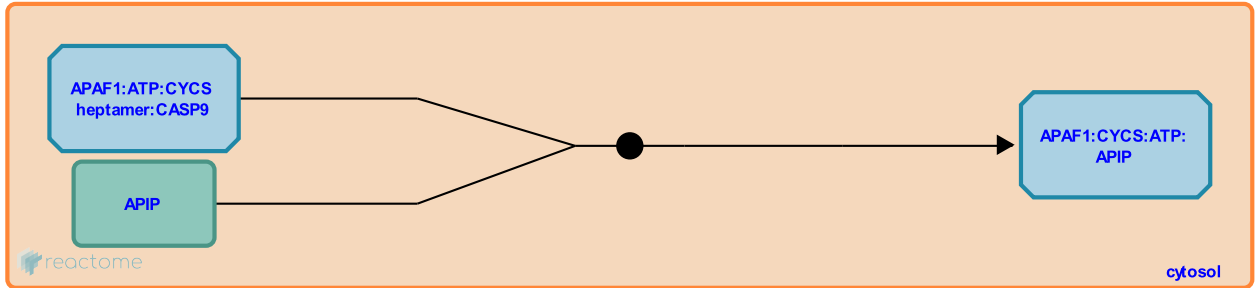
Reactome database release: 88

This document contains 1 reaction (see Table of Contents)

APAF1:CYCS binds APIP ↗

Stable identifier: R-HSA-6804596

Type: binding

Compartments: cytosol

The APAF1 interacting protein (APIP) is an endogenous regulators of the apoptosome apparatus. APIP is thought to bind to the CARD domain of APAF1 preventing procaspase-9 recruitment to the apoptosome (Cho DH et al., 2004; Cao G et al., 2004; Kang W et al. 2014). Moreover, during hypoxic conditions, APIP may also induce sustained activation of AKT and ERK1/2 kinases, which directly phosphorylate procaspase-9 to inhibit its activation in the apoptosome (Cho DH et al., 2007).

Literature references

Kim, TY., Yang, JK., Kim, HC., Ashida, H., Yokota, A., Le, le TM. et al. (2014). Structural and biochemical basis for the inhibition of cell death by APIP, a methionine salvage enzyme. *Proc. Natl. Acad. Sci. U.S.A., 111*, E54-61. ↗

Editions

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