

ANKLE2 binds VRK1, (VRK2)

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https://reactome.org Page 1

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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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467.
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Reactome database release: 88

This document contains 1 reaction (see Table of Contents)

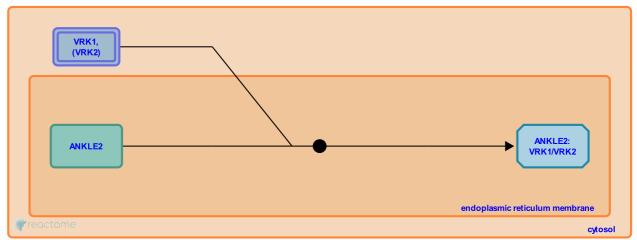
https://reactome.org Page 2

ANKLE2 binds VRK1,(VRK2) 对

Stable identifier: R-HSA-2995389

Type: binding

Compartments: cytosol, endoplasmic reticulum membrane



Both human ANKLE2 and the C. elegans ortholog LEM4 bind VRK1 (and possibly VRK2), the kinase responsible for phosphorylation of BANF1 (BAF) in mitotic prophase, and inhibit VRK1 catalytic activity (Asencio et al. 2012).

Literature references

Wallenfang, MR., Mall, M., Davidson, IF., Santarella-Mellwig, R., Ly-Hartig, TB., Asencio, C. et al. (2012). Coordination of kinase and phosphatase activities by Lem4 enables nuclear envelope reassembly during mitosis. *Cell*, 150, 122-35.

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Editions

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