

Partial autophosphorylation of PAK-2 at Ser-19, Ser-20, Ser-55, Ser-192, and Ser-197

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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

- Fabregat, A., Sidiropoulos, K., Viteri, G., Forner, O., Marin-Garcia, P., Arnau, V. et al. (2017). Reactome pathway analysis: a high-performance in-memory approach. *BMC bioinformatics*, 18, 142. [↗](#)
- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
- 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. [↗](#)
- Fabregat, A., Korninger, F., Viteri, G., Sidiropoulos, K., Marin-Garcia, P., Ping, P. et al. (2018). Reactome graph database: Efficient access to complex pathway data. *PLoS computational biology*, 14, e1005968. [↗](#)

Reactome database release: 88

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

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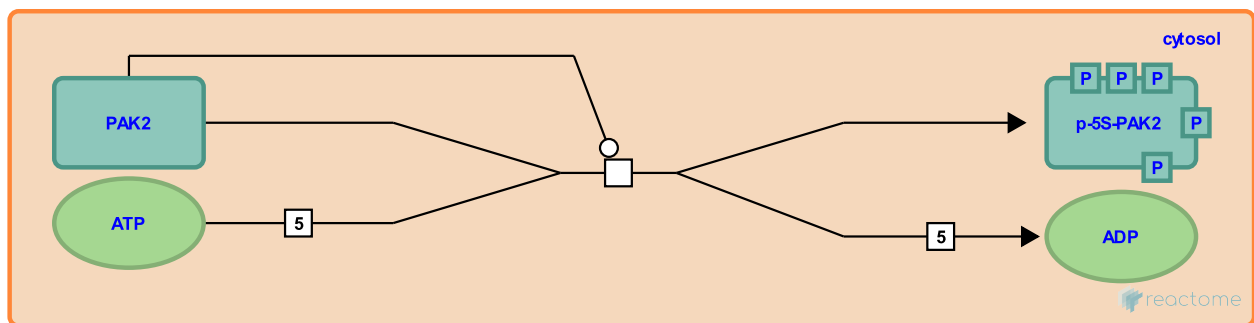


Stable identifier: R-HSA-211583

Type: transition

Compartments: cytosol

Inferred from: [Partial autophosphorylation of PAK-2 at Ser-19, Ser-20, Ser-55, Ser-192, and Ser-197 \(Oryctolagus cuniculus\)](#)



Inactive PAK-2 can be partially autophosphorylated in the regulatory region without being activated (Gatti et al. 1999).

Literature references

Traugh, JA., Jung, JH. (2005). Regulation of the interaction of Pak2 with Cdc42 via autophosphorylation of serine 141. *J Biol Chem*, 280, 40025-31. [↗](#)

Editions

2008-02-05	Authored	Jakobi, R.
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