MK2 phosphorylates BRF1

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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: 78**

This document contains 1 reaction ([see Table of Contents](https://reactome.org))
MK2 phosphorylates BRF1

Stable identifier: R-HSA-450474

Type: transition

Compartments: cytosol

MAPK-activated protein kinase 2 (MK2) phosphorylates BRF1 at serine 54, serine 92, serine 203, and an unknown site in the C terminus. Phosphorylation inhibits the ability of BRF1 to cause degradation of RNA. It is unknown if tetraphosphorylated BRF1 binds 14-3-3 in the same way as diphosphorylated BRF1 does.

Literature references


Editions

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