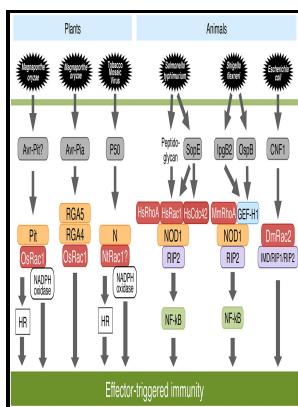


# RHO family GTPases

Springer - Rho family of GTPases



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## Proteins and cell regulation -- vol. 3RHO family GTPases

Notes: Includes bibliographical references.

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Tags: #Identification #of #a #GTP

Rho

PARG1, a protein-tyrosine phosphatase-associated RhoGAP, as a putative Rap2 effector. The mRNA data do, however, emphasize an important gap in current understanding: the liver is a major metabolic organ that expresses multiple Rho GEFs; however, there is, to our knowledge, no research data available yet on glucoregulatory roles of Rho GEFs in this organ.

## Rho Family GTPases and Rho GEFs in Glucose Homeostasis

Almost all research involves the three most common members of the Rho family: Cdc42, Rac1 and RhoA. The Rho-family of proteins On the basis of primary amino acid sequence identity, structural motifs and biological function, the Rho family can be divided into six subfamilies that exhibit similar, but not identical, properties Figs .. In terms of mechanobiology, small GTPases are highly important, having been linked to cell growth, differentiation, proliferation, migration, establishment and maintenance of polarity, vesicle transport and cytoskeletal organisation.

## Identification of a GTP

However, cell-type differences are seen and, like constitutively activated RhoA, constitutively activated RhoB can transform rodent fibroblasts; .

### What are Rho GTPases?

All share common growth-promoting and anti-apoptotic functions, as well as regulation of gene expression, through activation of signaling molecules such as serum response factor, NF- $\kappa$ B, the stress-activated protein kinases and cyclin D1 ; This leads to a highly complex biological system where spatiotemporal regulation of Rho family GTPases can lead to the coordinated activation of several diverse signaling pathways.

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