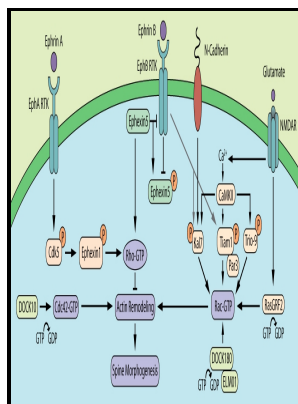


# RHO family GTPases

Springer - Cell signalling



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 Lotus 1-2-3 (Computer file)  
 Wilson, Cyril.  
 Rho GTPases. RHO family GTPases  
 - Proteins and cell regulation -- vol. 3 RHO family GTPases  
 Notes: Includes bibliographical references.  
 This edition was published in 2005



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Tags: #RHO #Family #GTPases

## The Rho GTPase family: a Rac to Wrcbs story

First, microtubule depolymerization induced by nocadazole activates Rho Liu et al. Expression of constitutively active Plekhg4 and siRNA knockdown led to increased and decreased GLUT4 translocation, respectively.

## Rho GTPases and cell migration

However, it is important to note that, in certain circumstances, Rho family GTPases can have unanticipated effects on neuronal morphology. Indeed, expression of a constitutively active Rac1 GTPase mutant abrogated mSOD1-induced neuronal death while expression of dominant negative Rac1 GTPase alone induced apoptosis. Although the G93A SOD1 mutation remains the best characterized to date, mutations in additional genes such as Alsln ALS2 , Tar DNA-binding protein 43 TDP43 , and fused in sarcoma FUS have also been linked to other familial forms of ALS.

## Rho

CMG assisted with the radionucleotide assay.

## Identification of a GTP

Inhibition of ROCK utilizing Y-27632 has been demonstrated to have neuroprotective effects in vitro and in a Drosophila model of HD. Rac1b is also unable to interact with Rho guanine nucleotide dissociation inhibitor RhoGDI and, thus, it exhibits enhanced association with the plasma membrane.

## Cell signalling

Rotenone is an environmental toxin that induces dopaminergic loss and parkinsonian features when chronically administered to rodents ; P-Rex1 Links Mammalian Target of Rapamycin Signaling to Rac Activation and Cell Migration. Conclusions Rho GTPases coordinately regulate multiple aspects of cell migration, affecting the different components of the cytoskeleton as well as cell-substrate adhesion and possibly matrix remodelling.

Results are expressed as absorbance at 480 nm.

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