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Actin-binding proteins | Journal of Cell Science

Monomer-binding proteins. In motile cells it is imperative that there is a large pool of monomer that can be released to allow rapid filament extension. This can be achieved by monomer-sequestering proteins, the best studied of which is the thymosin family. These proteins act by clamping ATP-actin top to bottom.

Actin-Monomer-Binding Proteins | Pekka Lappalainen | Springer

Actin monomer binding proteins provides a comprehensive view on actin monomer-binding proteins and the mechanisms by which they contribute to actin dynamics and various actin-dependent cellular processes. This new title contains chapters that describe the basic mechanisms of actin dynamics as well as the structural principles by which various actin-binding proteins interact with actin.

Actin-Monomer-Binding Proteins - Springer

Actin-Monomer-Binding Proteins Pekka Lappalainen, Ph.D. Institute of Biotechnology PROFESSOR PEKKA LAPPALAINEN is a research director at Institute of Biotechnology, University of Helsinki, Finland. His main research interests include the small actin binding proteins twinfilin, Srv2/CAP and ADF/cofilin as well as the analysis of the roles of the actin cytoskeleton during various cellular

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This book provides a comprehensive view on actin monomer-binding proteins and the mechanisms by which they contribute to actin dynamics and various actin-dependent cellular processes.

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book is suitable further

Actin and Actin-Binding Proteins - cshperspectives.cshlp.org

Overview of families of actin-binding proteins, including monomer binding, polymerases such as formins, capping proteins, severing proteins, cross-linking proteins, and branching protein Arp2/3 complex. Filaments can anneal end to end, but no proteins are known to facilitate this reaction. The drawing does not include tropomyosin and myosin motors, which bind to the sides of filaments

Regulation of cytoskeletal dynamics by actin-monomer ...

actin-monomer-binding proteins Ville O. Paavilainen, Enni Bertling, Sandra Falck and Pekka Lappalainen Program in Cellular Biotechnology, Institute of Biotechnology, PO Box 56, University of Helsinki, Helsinki 00014, Finland The actin cytoskeleton is a vital component of several key cellular and developmental processes in eukary-otes. Many proteins that interact with lamentous and/or

Actin monomer binding proteins - ScienceDirect

Small actin monomer binding proteins are essential components of the actin polymerization machinery. Originally thought of as passive buffers that prevent polymerization of actin monomers, recent discoveries elucidate how some actin monomer binding proteins can promote as well as inhibit polymerization, and how they cooperate to regulate actin assembly.

Actin-binding protein - Wikipedia

Actin-binding protein. This may mean ability to bind actin monomers, or polymers, or both. Many actin-binding proteins, including -actinin, -spectrin, dystrophin, utrophin and fimbrin, do this through the actin-binding calponin homology domain. This is a list of actin-binding proteins in alphabetical order.

Regulation of the Cortical Actin Cytoskeleton in Budding ...

Actin filament depolymerizing proteins of the actin-depolymerizing factor (ADF) 1 /cofilin family regulate actin filament depolymerization and turnover by increasing the dissociation rate of actin monomers from the pointed end in vitro and in vivo (Carlier et al., 1997; Lappalainen and Drubin, 1997; Rosenblatt et al., 1997).

Pekka Lappalainen - ResearchGate

Membrane phosphoinositides control organization and dynamics of the actin cytoskeleton by regulating the activities of several key actin-binding proteins. Twinfilin is an evolutionarily conserved

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Small actin monomer binding proteins are essential components of the actin polymerization machinery. Originally thought of as passive buffers that prevent polymerization of actin monomers, recent

Pekka Lappalainen: Actin-Monomer-Binding Proteins (PDF ...

This book provides a comprehensive view on actin monomer-binding proteins and the mechanisms by which they contribute to actin dynamics and various actin-dependent cellular processes.

Actin-monomer-binding proteins (eBook, 2007) [WorldCat.org]

The actin cytoskeleton plays a central role in many cellular processes including cell motility, cytokinesis, endocytosis and phagocytosis. The structure and dynamics of the actin cytoskeleton is regulated by a large number of proteins that interact with monomeric and/or filamentous actin.