

SHOCK®

Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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COVER: ROK pathway in smooth muscle cells. Binding of the ligand activates the G-protein receptor. Attachment of the exchange factor to the receptor mediates RAS activation. RAS-GTP activates ROK, which is central to numerous contraction mechanisms. ROK inhibits MLCP (inducing calcium sensitization) and activates p38 MAPK (contributes to actin filament stabilization). MLCK, myosin light chain kinase; MLCP, myosin light chain phosphatase; HSP27, heat shock protein 27; ROK, Rho kinase. See Morrell et al., pages 214–226, 2006.