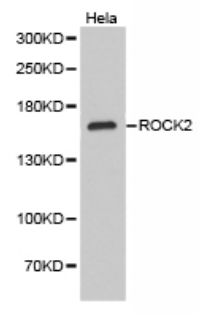
ROCK2Polyclonal Antibody

E93226

Catalog Number: E93226
Amount: 100ul
Background: ROCK (Rho-associated kinase), a family of serine/threonine kinases, is an important downstream target of Rho-GTPase and plays an important role in Rho-mediated signaling. Two isoforms of ROCK have been identified: ROCK1 and ROCK2. ROCK is composed of N-terminal catalytic, coiled-coil, and C-terminal PH (pleckstrin homology) domains. The C-terminus of ROCK negatively regulates its kinase activity (1,2). Caspase-3-induced cleavage of ROCK1 and direct cleavage of ROCK2 by granzyme B (grB) activates ROCK and leads to phosphorylation of myosin light chain and inhibition of myosin phosphatase (3). This phosphorylation may account for the mechanism by which Rho regulates cytokinesis, cell motility, cell membrane blebbing during apoptosis, and smooth muscle contraction (4-6).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: ROCK-II; KIAA0619;
Immunogen: Recombinant protein of human ROCK2
Purification: Affinity purification
Reactivity: H M R
Applications: WB IF
Molecular Weight: 160kDa
Swiss-Prot No. : O75116
Gene ID: 9475
References: 1. Nakagawa, O. et al. (1996) FEBS Lett. 392, 189-193. 2. Lee, J.H. et al. (2004) J. Cell. Biol. 167, 327-337. 3. Sebbagh, M. et al. (2005) J. Exp. Med. 201, 465-471. 4. Amano, M. et al. (1996) J. Biol. Chem. 271, 20246-20249. 5. Kureishi, Y. et al. (1997) J. Biol. Chem. 272, 12257-12260. 6. Totsukawa, G. et al. (2000) J. Cell Biol. 150, 797-806.

WB 1:500 - 1:2000

IF 1:20- 1:50



Western blot analysis of extracts of HeLa celllines, using ROCK2antibody.

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