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## ROCK2 (N) Antibody, Rabbit Polyclonal

Cat#: R1642-1

Quantity: 100 ul

Predicted I Observed M.W.: 161 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: O75116

### Background:

ROCK2 is a key regulator of actin cytoskeleton and cell polarity. ROCK2 is involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of ADD1, BRCA2, CNN1, EZR, DPYSL2, EP300, MSN, MYL9/MLC2, NPM1, RDX, PPP1R12A and VIM. Phosphorylates SORL1 and IRF4. ROCK2 acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. ROCK2 positively regulates the activation of p42/MAPK1-p44/MAPK3 and of p90RSK/RPS6KA1 during myogenic differentiation. Plays an important role in the timely initiation of centrosome duplication. ROCK2 inhibits keratinocyte terminal differentiation. ROCK2 may regulate closure of the eyelids and ventral body wall through organization of actomyosin bundles. ROCK2 plays a critical role in the regulation of spine and synaptic properties in the hippocampus.

### Other Names:

Rho-associated protein kinase 2, Rho kinase 2, Rho-associated, coiled-coil-containing protein kinase 2, Rho-associated, coiled-coil-containing protein kinase II, ROCK-II, p164 ROCK-2, KIAA0619

### Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human ROCK2. Antibodies were purified by affinity purification using immunogen.

### Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### Tested Applications:

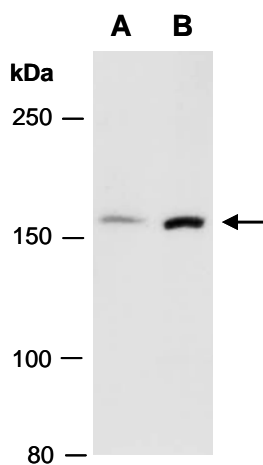
WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Species Specificity:**

Human

**Product Data:**



**Fig 1.** Western blot of total cell extracts from (A) human HeLa, (B) human Jurkat; using anti-ROCK2 (N) (R1642-1) at RT for 2 h.