

## ROCK1

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:** 158kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human ROCK1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bdr

**Synonym:**

ROCK-I; P160ROCK;

**Catalog #:** A0144

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 6093

**Isotype:** IgG

**Swiss Prot:** Q13464

**Purity:** Affinity purification

For research use only.

**Background:**

ROCK1, also named as p160ROCK and NY-REN-35, belongs to the protein kinase superfamily and AGC Ser/Thr protein kinase family. ROCK1 phosphorylates and activates DAPK3, which then regulates myosin light chain phosphatase through phosphorylation of MYPT1 thereby regulating the assembly of the actin cytoskeleton, cell migration, invasiveness of tumor cells, smooth muscle contraction and neurite outgrowth. ROCK1 is required for centromere positioning and centromere-dependent exit from mitosis. It is necessary for apoptotic membrane blebbing. ROCK1 catalyzes the reaction: ATP + a protein = ADP + a phosphoprotein. The antibody is specific to ROCK1.

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