

## ROCK1

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**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC ICC IF IP FC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IF 1:50 - 1:100  
IP 1:20 - 1:50 FC 1:20 - 1:50

**Calculated MW:**158 kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human ROCK1

**Storage Buffer:**

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

**Synonym:**

ROCK-I; P160ROCK;

**Catalog #:**A11158

**Antibody Type:**

Monoclonal Antibody

**Species:**Rabbit

**Gene ID:**6093

**Isotype:**IgG

**Swiss Prot:**Q13464

**Purity:**Affinity purification

For research use only.

**Background:**

This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. A pseudogene, related to this gene, is also located on chromosome 18.

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