

Datasheet for ABIN969563

**anti-ROCK1 antibody****3** Images**2** Publications[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	ROCK1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ROCK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Purified recombinant fragment of human ROCK1 expressed in E. coli.
Clone:	1H4
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	ROCK1
Alternative Name:	ROCK1 ( <a href="#">ROCK1 Products</a> )
Background:	Description: 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

## Target Details

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.  
Aliases: ROCK-I, PRO0435, MGC43611, P160ROCK, MGC131603

Molecular Weight: 158 kDa

Gene ID: 6093

HGNC: 6093

Pathways: [Microtubule Dynamics](#), [WNT Signaling](#), [M Phase](#), [Maintenance of Protein Location](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Thromboxane A2 Receptor Signaling](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

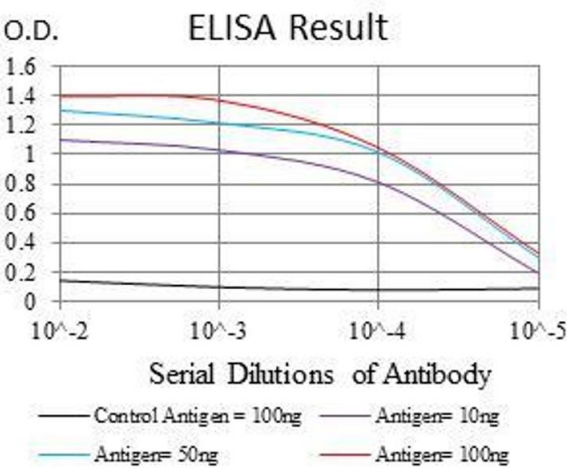
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

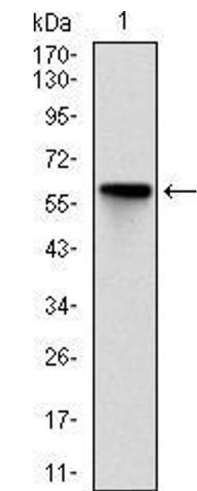
## Publications

Product cited in: Li, Xia, Huang, Chen, Su, Li, Wang, Ding, Shao: "A strategy to rapidly identify the functional targets of microRNAs by combining bioinformatics and mRNA cytoplasmic/nucleic ratios in culture cells." in: **FEBS letters**, Vol. 584, Issue 14, pp. 3198-202, (2010) ([PubMed](#)).



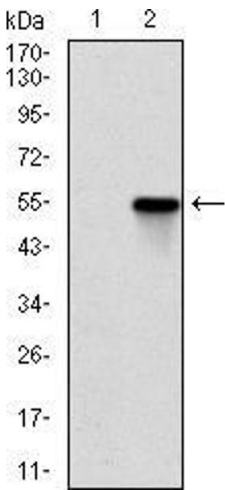
**ELISA**

**Image 1.** Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



**Western Blotting**

**Image 2.** Western blot analysis using ROCK1 mAb against human ROCK1 (AA: 403-610) recombinant protein. (Expected MW is 158 kDa)



**Western Blotting**

**Image 3.** Western blot analysis using ROCK1 mAb against HEK293 (1) and ROCK1 (AA: 403-610)-hlgGfC transfected HEK293 (2) cell lysate.