

Datasheet for ABIN7168000
anti-ROCK1 antibody (AA 405-668) (Biotin)



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Overview

Quantity:	100 µL
Target:	ROCK1
Binding Specificity:	AA 405-668
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROCK1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Rho-associated protein kinase 1 protein (405-668AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ROCK1
Alternative Name:	ROCK1 (ROCK1 Products)
Background:	Background: Protein kinase which is a key regulator of actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress

Target Details

fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of DAPK3, GFAP, LIMK1, LIMK2, MYL9/MLC2, PFN1 and PPP1R12A. Phosphorylates FHOD1 and acts synergistically with it to promote SRC-dependent non-apoptotic plasma membrane blebbing. Phosphorylates JIP3 and regulates the recruitment of JNK to JIP3 upon UVB-induced stress. Acts as a suppressor of inflammatory cell migration by regulating PTEN phosphorylation and stability. Acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. Required for centrosome positioning and centrosome-dependent exit from mitosis. Plays a role in terminal erythroid differentiation. May regulate closure of the eyelids and ventral body wall by inducing the assembly of actomyosin bundles. Promotes keratinocyte terminal differentiation. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization.

Aliases: coiled-coil-containing protein kinase 1 antibody, coiled-coil-containing protein kinase I antibody, MGC131603 antibody, MGC43611 antibody, p160 Rhoassociated coiled coil-forming protein kinase antibody, p160 ROCK-1 antibody, p160 ROCK1 antibody, p160ROCK antibody, PRO0435 antibody, Renal carcinoma antigen NY REN 35 antibody, Renal carcinoma antigen NY-REN-35 antibody, Rho associated coiled coil containing protein kinase 1 antibody, Rho associated protein kinase 1 antibody, Rho kinase antibody, Rho-alpha kinase antibody, Rho-associated antibody, Rho-associated protein kinase 1 antibody, ROCK I antibody, ROCK-I antibody, ROCK1 antibody, ROCK1_HUMAN antibody, Rok antibody, rokalpha antibody

UniProt: [Q13464](#)

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: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.