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## Datasheet for ABIN968071 anti-ROCK2 antibody (AA 567-718)

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5 Publications



## Overview

Quantity:	150 µg
Target:	ROCK2
Binding Specificity:	AA 567-718
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ROCK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

## Product Details

Immunogen:	Rat ROKalpha aa. 567-718
Clone:	21-ROCK
Isotype:	lgG1
Cross-Reactivity:	Mouse (Murine), Dog (Canine), Human
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.
Target Details	
Target:	ROCK2
Alternative Name:	ROCK-II (ROCK2 Products)
Background:	Activity of the GTP-binding proteins is regulated by GAPs, that accelerate binding, and GTPases
	that enhance the rate of GTP hydrolysis (Ras, Rho, cdc42Hs, and Rac). The isoforms of Rho, a
	small GTP-binding protein, regulate cellular processes such as the formation of the stress
	fibers, lamelipodia, and filopodia. ROKalpha (RhoA-binding kinase) is a Ser/Thr protein kinase
	that interects with the GTP-binding form of RhoA. Like RhoA, ROKalpha localizes at the cellular
	margins and colocalizes with acti filaments. The ROKalpha gene encodes a protein of 1302
	amino acids with homology to the human myotonic kinase. Although ROKalpha binds to GTP-
	RhoA, it is not yet clear whether this interaction induces the kinase activity of ROKalpha.
	Synonyms: ROKalpha
Molecular Weight:	180 kDa
Pathways:	Microtubule Dynamics, WNT Signaling, Tube Formation
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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:	-20 °C
Storage Comment:	Store undiluted at -20° C.

**Product Details** 

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Begum, Sandu, Ito, Lohmann, Smolenski: "Active Rho kinase (ROK-alpha) associates with insulin receptor substrate-1 and inhibits insulin signaling in vascular smooth muscle cells." in: **The Journal of biological chemistry**, Vol. 277, Issue 8, pp. 6214-22, (2002) (PubMed).

Wang, Eto, Steers, Somlyo, Somlyo: "RhoA-mediated Ca2+ sensitization in erectile function." in: **The Journal of biological chemistry**, Vol. 277, Issue 34, pp. 30614-21, (2002) (PubMed).

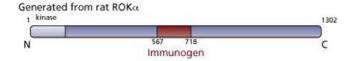
Adachi, Vita, Sannohe, Stafford, Alam, Kayaba, Chihara: "The functional role of rho and rhoassociated coiled-coil forming protein kinase in eotaxin signaling of eosinophils." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 8, pp. 4609-15, (2001) (PubMed).

Sahai, Olson, Marshall: "Cross-talk between Ras and Rho signalling pathways in transformation favours proliferation and increased motility." in: **The EMBO journal**, Vol. 20, Issue 4, pp. 755-66, (2001) (PubMed).

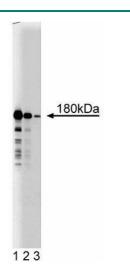
Leung, Manser, Tan, Lim: "A novel serine/threonine kinase binding the Ras-related RhoA GTPase which translocates the kinase to peripheral membranes." in: **The Journal of biological chemistry**, Vol. 270, Issue 49, pp. 29051-4, (1996) (PubMed).

### Images

Image 1.



#### Images



## Western Blotting

**Image 2.** Western blot analysis of ROCK-II on RSV-3T3 Iysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of ROCK-II.

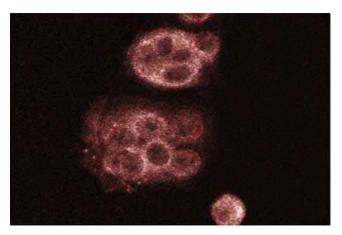


Image 3. MCF7

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