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

| 3 | Images |
|---|--------|
|---|--------|

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).

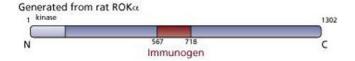
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Sahai, Olson, Marshall: "Cross-talk between Ras and Rho signalling pathways in transformation favours proliferation and increased motility." in: **The EMBO journal**, Vol. 20, Issue 4, pp. 755-66, (2001) (PubMed).

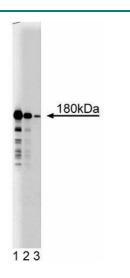
Leung, Manser, Tan, Lim: "A novel serine/threonine kinase binding the Ras-related RhoA GTPase which translocates the kinase to peripheral membranes." in: **The Journal of biological chemistry**, Vol. 270, Issue 49, pp. 29051-4, (1996) (PubMed).

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.

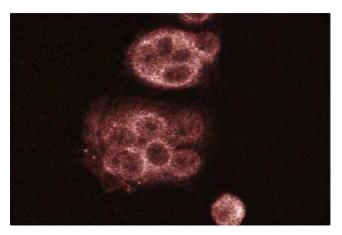


Image 3. MCF7

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