



Datasheet for ABIN3043921  
**anti-ROCK2 antibody (AA 652-923)**



[Go to Product page](#)

4 Images

4 Publications

## Overview

Quantity:	100 µg
Target:	ROCK2
Binding Specificity:	AA 652-923
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROCK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Rho-associated protein kinase 2(ROCK2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human ROCK2 recombinant protein (Position: E652-D923). Human ROCK2 shares 94.9% and 95.2% amino acid (aa) sequence identity with mouse and rat ROCK2, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Rho-associated protein kinase 2(ROCK2) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: Rho-associated, coiled-coil containing protein kinase 2 Protein Name: Rho-associated protein kinase 2
Purification:	Immunogen affinity purified.

## Target Details

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Target: ROCK2

Alternative Name: ROCK2 ([ROCK2 Products](#))

Background: Rho-associated kinase (ROCK), including the ROCK-I and ROCK-II isoforms, is a protein kinase involved in signaling from Rho to actin cytoskeleton. Serine/threonine kinase ROCK II/Rho kinase, which is an isozyme of ROCK I, is one of the targets for the small GTPase Rho. ROCK II regulates the formation of actin stress fibers and focal adhesions, cytokinesis, smooth muscle contraction, and the activation of c-fos serum response element. Sequencing analysis has shown that human ROCK II contains 1388 amino acid residues with a calculated molecular mass of approximately 161 kDa. Fluorescence in situ hybridization analysis showed that the human ROCK II gene is located on chromosome 2p24. Thumkeo et al. concluded that ROCK-II is essential in inhibiting blood coagulation and maintaining blood flow in the endothelium-free labyrinth layer and that loss of ROCK-II leads to thrombus formation, placental dysfunction, intrauterine growth retardation, and fetal death.

Synonyms: coiled-coil-containing protein kinase 2 antibody|KIAA0619 antibody|p164 ROCK 2 antibody|p164 ROCK-2 antibody|Rho associated coiled coil containing protein kinase 2 antibody|Rho associated protein kinase 2 antibody|Rho associated, coiled coil containing protein kinase II antibody|Rho kinase 2 antibody|Rho-associated antibody|Rho-associated protein kinase 2 antibody|ROCK 2 antibody|Rock II antibody|Rock2 antibody|ROCK2\_HUMAN antibody|Rock2m antibody|ROK alpha antibody|ROKalpha antibody

Gene ID: 9475

UniProt: [075116](#)

Pathways: [Microtubule Dynamics](#), [WNT Signaling](#), [Tube Formation](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for ROCK2 is approximately 0.1 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

## Application Details

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ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg 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.

Handling Advice: Avoid repeated freezing and thawing.

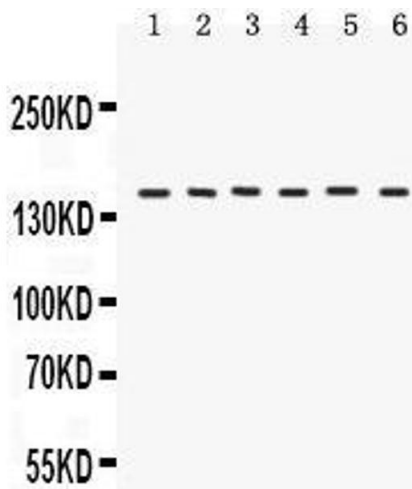
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

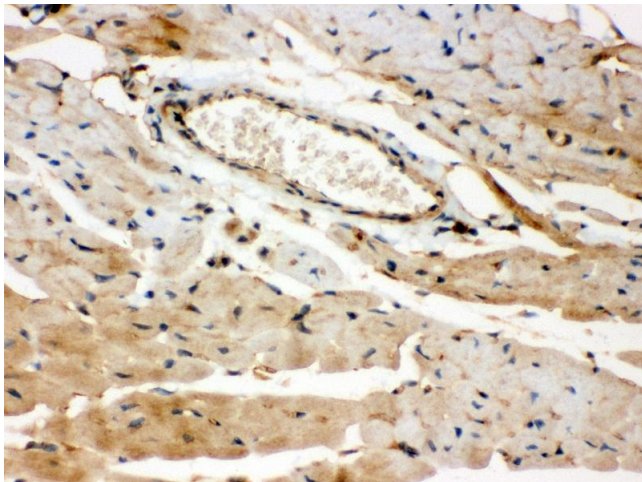
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Product cited in: Li, Zhao, Qi, Wang, Zhang, Li, Qin: "lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR $\gamma$  pathway in hepatocellular carcinoma." in: **International journal of oncology**, Vol. 53, Issue 2, pp. 551-566, (2018) ([PubMed](#)).



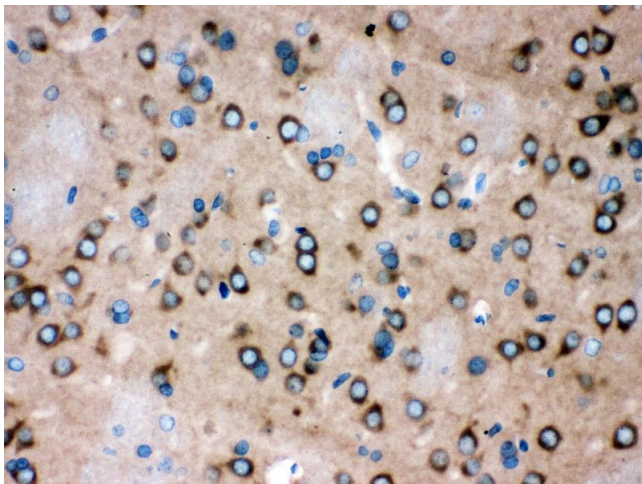
### Western Blotting

**Image 1.**



### Immunohistochemistry

**Image 2.** Anti- ROCK2 Picoband antibody,IHC(P) IHC(P):  
Mouse Cardiac Muscle Tissue



### Immunohistochemistry

**Image 3.** Anti- ROCK2 Picoband antibody,IHC(P) IHC(P): Rat  
Brain Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043921.