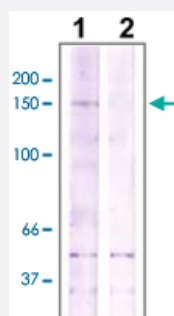


# ROCK2 polyclonal antibody

Catalog # PAB12729

Size 100 ug

## Applications



### Immunoprecipitation

The cell lysate derived from NIH/3T3 was immunoprecipitated by ROCK2 polyclonal antibody (Cat # PAB12729), then immunoprobed by the same antibody at 1 : 500 (lane 1). Lane 2 is a negative control.

## Specification

|                                |                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit polyclonal antibody raised against synthetic peptide of ROCK2.                                                                                                                               |
| <b>Immunogen</b>               | A synthetic peptide corresponding to residues surrounding T249 of human ROCK2.                                                                                                                      |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                              |
| <b>Theoretical MW (kDa)</b>    | 165                                                                                                                                                                                                 |
| <b>Reactivity</b>              | Human, Mouse, Rat                                                                                                                                                                                   |
| <b>Specificity</b>             | This antibody recognizes ~165 KDa of human ROCK2 without a phosphorylation site of Thr249. It does not react to phosphorylated protein.                                                             |
| <b>Form</b>                    | Liquid                                                                                                                                                                                              |
| <b>Quality Control Testing</b> | Antibody Reactive Against Synthetic Peptide.                                                                                                                                                        |
| <b>Recommend Usage</b>         | Western Blot (0.1-1 ug/mL)<br>ELISA (0.01-0.1 ug/mL)<br>Immunoprecipitation (2-5 ug/mL)<br>Immunohistochemistry (0.5-2 ug/mL)<br>The optimal working dilution should be determined by the end user. |

**Storage Buffer**

In TBS, pH 7.2 (BSA, 10% Proclin300)

**Storage Instruction**

Store at 4°C. For long term storage store at -20°C or lower.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

The cell lysate derived from NIH/3T3 was immunoprecipitated by ROCK2 polyclonal antibody (Cat # PAB12729), then immunoprobed by the same antibody at 1 : 500 (lane 1). Lane 2 is a negative control.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ROCK2

**Entrez GeneID**[9475](#)**Gene Name**

ROCK2

**Gene Alias**

KIAA0619

**Gene Description**

Rho-associated, coiled-coil containing protein kinase 2

**Omim ID**[604002](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis, smooth muscle contraction, the formation of actin stress fibers and focal adhesions, and the activation of the c-fos serum response element. This protein, which is an isozyme of ROCK1 is a target for the small GTPase Rho. [provided by RefSeq]

**Other Designations**

OTTHUMP00000195104

## Publication Reference

- [Functional effects of rho-kinase-dependent phosphorylation of specific sites on cardiac troponin.](#)

Vahebi S, Kobayashi T, Warren CM, de Tombe PP, Solaro RJ.

Circulation Research 2005 Mar; 96(7):740.

## Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)
- [TGF-beta signaling pathway](#)
- [Vascular smooth muscle contraction](#)
- [Wnt signaling pathway](#)

## Disease

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Neoplasm Metastasis](#)

- [Pre-Eclampsia](#)