

# ROCK2 (phospho T249) polyclonal antibody

Catalog # PAB12731

Size 100 ug

## Specification

|                                |                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit polyclonal antibody raised against synthetic phosphopeptide of ROCK2.                                                                                                                        |
| <b>Immunogen</b>               | Synthetic phosphopeptide corresponding to residues surrounding T249 of human ROCK2.                                                                                                                 |
| <b>Sequence</b>                | CDTAV                                                                                                                                                                                               |
| <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 at a phosphorylation site of Thr249. It does not react to non-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. |
| <b>Storage Buffer</b>          | In TBS, pH 7.2 (BSA, 10% Proclin300)                                                                                                                                                                |
| <b>Storage Instruction</b>     | Store at -20°C. For long term storage store at -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                            |

## Applications

- Western Blot
- Immunohistochemistry

- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ROCK2

|                    |                                                                                                                                                                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">9475</a>                                                                                                                                                                                                                                                                                                                         |
| Gene Name          | ROCK2                                                                                                                                                                                                                                                                                                                                        |
| Gene Alias         | KIAA0619                                                                                                                                                                                                                                                                                                                                     |
| Gene Description   | Rho-associated, coiled-coil containing protein kinase 2                                                                                                                                                                                                                                                                                      |
| Omim ID            | <a href="#">604002</a>                                                                                                                                                                                                                                                                                                                       |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                    |
| 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](#)