

Bioactive

# ROCK2 (Human) Recombinant Protein

Catalog # P6557

Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

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## Specification

|                                |                                                                                                                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human ROCK2 (NP_004841.2, 1 a.a. - 553 a.a.) partial recombinant protein with GST-tag at N-terminal using baculovirus expression system.                                                                                                                                           |
| <b>Host</b>                    | Viruses                                                                                                                                                                                                                                                                            |
| <b>Form</b>                    | Liquid                                                                                                                                                                                                                                                                             |
| <b>Preparation Method</b>      | Baculovirus expression system.                                                                                                                                                                                                                                                     |
| <b>Purification</b>            | Glutathione sepharose chromatography.                                                                                                                                                                                                                                              |
| <b>Purity</b>                  | 0.92                                                                                                                                                                                                                                                                               |
| <b>Activity</b>                | The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by MSA device. Substrate: LIMKtide, ATP: 100 uM. |
| <b>Quality Control Testing</b> | The purity was assessed by SDS-PAGE/CBB staining.                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>          | 50 mM Tris-HCl, 150 mM NaCl, 0.1% CHAPS, 1 mM DTT, 10% glycerol, pH 7.5                                                                                                                                                                                                            |
| <b>Storage Instruction</b>     | Stored at -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                |

## Note

Result of activity analysis  
Result of activity analysis

## Applications

- Functional Study

## Gene Info — ROCK2

Entrez GeneID [9475](#)

Protein Accession# [NP\\_004841.2](#)

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

## 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](#)