

## Recombinant Rat Rock2 Protein, His-tagged

**Cat. No.** Rock2-2026R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Rock2 Protein (Leu904-Gly1140) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Leu904-Gly1140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>Predicted to enable Rho-dependent protein serine/threonine kinase activity. Involved in several processes, including positive regulation of cardiac muscle hypertrophy; positive regulation of connective tissue replacement; and positive regulation of cytokine production. Acts upstream of or within Rho protein signal transduction.</p> <p>Predicted to be located in cytoplasmic ribonucleoprotein granule; cytosol; and spindle pole centrosome. Predicted to be active in several cellular components, including Schaffer collateral - CA1 synapse; centrosome; and glutamatergic synapse.</p> <p>Orthologous to human ROCK2 (Rho associated coiled-coil containing protein kinase 2).</p> |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | <p>Predicted Molecular Mass: 31.0 kDa</p> <p>Accurate Molecular Mass: 31 kDa</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Rock2 Rho-associated coiled-coil containing protein kinase 2 [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | Rock2                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | ROCK2; Rho-associated coiled-coil containing protein kinase 2; rho-associated protein kinase 2; ROKalpha; p164 ROCK-2; p150 ROK-alpha; rhoA-binding kinase 2; Rho-associated coiled-coil forming kinase 2; rho-associated, coiled-coil-containing protein kinase 2; rho-associated, coiled-coil-containing protein kinase II; RhoA - binding serine/threonine kinase alpha (ROK - alpha); ROK; ROCK-II; |
| <b>Gene ID</b>         | 25537                                                                                                                                                                                                                                                                                                                                                                                                   |

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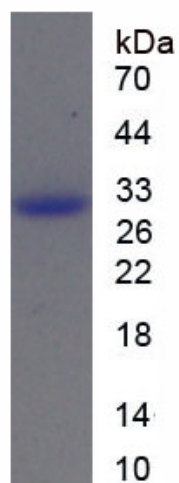
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mRNA Refseq [NM\\_013022](#)

Protein Refseq [NP\\_037154](#)

UniProt ID [Q62868](#)



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