

Recombinant Rat Rock2 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Rat Rock2 Protein (Leu904-Gly1140) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu904-Gly1140
Description	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. 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. Orthologous to human ROCK2 (Rho associated coiled-coil containing protein kinase 2).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.0 kDa Accurate Molecular Mass: 31 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Rock2 Rho-associated coiled-coil containing protein kinase 2 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Rock2
Synonyms	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;
Gene ID	25537

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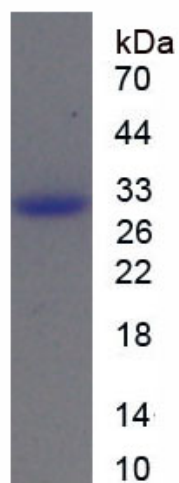
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mRNA Refseq [NM_013022](#)

Protein Refseq [NP_037154](#)

UniProt ID [Q62868](#)



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