

Active Recombinant Human ROCK2 Protein, GST tagged

Cat. No. ROCK2-421H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ROCK2 (5-554) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
ProteinLength	5-554 aa
Description	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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	370 nmol/min/mg
Molecular Mass	~88kDa
Purity	> 90%
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µL

Shipping Dry ice

Reference 1. Zhao, Z. et al: Rho-associated kinases play a role in endocardial cell differentiation and migration. Dev Biol. 2004 Nov 1;275(1):183-91. 2. Noma, K. et al: Physiological role of ROCKs in the cardiovascular system. Am J Physiol Cell Physiol. 2006 Mar;290(3):C661-8.

GENE INFORMATION

Gene Name ROCK2 Rho-associated, coiled-coil containing protein kinase 2 [Homo sapiens]

Official Symbol ROCK2

Synonyms ROCK2; Rho-associated, coiled-coil containing protein kinase 2; rho-associated protein kinase 2; p164 ROCK-2; rho-associated, coiled-coil-containing protein kinase II; ROCK-II; KIAA0619

Gene ID 9475

mRNA Refseq NM_004850

Protein Refseq NP_004841

MIM 604002

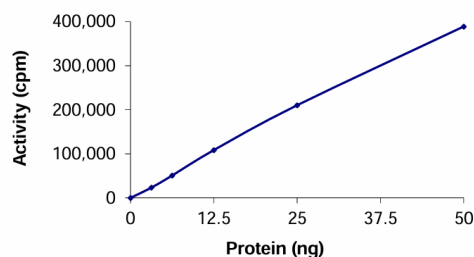
UniProt ID O75116

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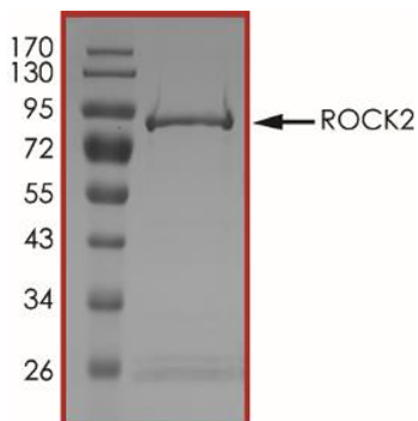
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Specific Activity



The specific activity of ROCK2 was determined to be 370 nmol/min/mg as per activity assay protocol.

Purity



The purity of ROCK2 was determined to be > 90% by densitometry, approx. MW ~88 kDa.