

Recombinant Human ROCK2, GST-tagged, Active

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. MW=88kDa.
Species	Human
Source	Sf9 Cells
Protein Length	5-554 a.a.
Description	ROCK2 is a ubiquitously expressed serine/threonine kinase localized in the nucleus 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. ROCK2 is an immediate downstream target of the small GTPase RhoA. ROCK2 may play a pivotal role in cardiovascular diseases such as vasospastic angina, ischemic stroke, and heart failure. Inhibition of ROCKs by statins or other selective inhibitors leads to the upregulation and activation of endothelial nitric oxide synthase (eNOS) and reduction of vascular inflammation and atherosclerosis.
Sequence	5-554.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	ROCK2 Rho-associated, coiled-coil containing protein kinase 2 [Homo sapiens]
Synonyms	ROCK2; Rho-associated, coiled-coil containing protein kinase 2; KIAA0619; EC 2.7.11.1
Gene ID	9475
mRNA Refseq	NM_004850
Protein Refseq	NP_004841
MIM	604002
UniProt ID	O75116
Chromosome Location	2p24
Pathway	Axon guidance; Chemokine signaling pathway; Focal adhesion; Leukocyte transendothelial migration; Pathogenic Escherichia coli infection; Regulation of actin cytoskeleton; TGF-beta signaling pathway; Vascular smooth muscle contraction; Wnt signaling pathway; Signaling by GPCR; Axon guidance
Function	ATP binding; GTP-Rho binding; identical protein binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity; zinc ion binding; transferase activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA