

Recombinant Human ROCK2, GST-His

Cat. No. ROCK2-712H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ROCK2, Amino acids P6-S553, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in Sf9 cells. MW = 92,279 Da. .
Species	Human
Source	Sf9 Cells
Protein Length	6-553 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.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	ROCK2 was confirmed as human ROCK2 by mass spec troscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.
Concentration	0.356 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).

 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

Specific Activity	27 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
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;

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