

Recombinant Human ROCK1 Protein (S6-R415), His tagged

Cat. No. ROCK1-0904H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 8His-TEV-ROCK1(S6-R415) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	S6-R415
Description	Protein kinase which is a key regulator of the actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of DAPK3, GFAP, LIMK1, LIMK2, MYL9/MLC2, TPPP, PFN1 and PPP1R12A. Phosphorylates FHOD1 and acts synergistically with it to promote SRC-dependent non-apoptotic plasma membrane blebbing. Phosphorylates JIP3 and regulates the recruitment of JNK to JIP3 upon UVB-induced stress. Acts as a suppressor of inflammatory cell migration by regulating PTEN phosphorylation and stability. Acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. Required for centrosome positioning and centrosome-dependent exit from mitosis. Plays a role in terminal erythroid differentiation. Inhibits podocyte motility via regulation of actin cytoskeletal dynamics and phosphorylation of CFL1. Promotes keratinocyte terminal differentiation. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. May regulate closure of the eyelids and ventral body wall

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by inducing the assembly of actomyosin bundles.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	ROCK1 Rho-associated, coiled-coil containing protein kinase 1 [Homo sapiens (human)]
Official Symbol	ROCK1
Synonyms	ROCK1; Rho-associated, coiled-coil containing protein kinase 1; rho-associated protein kinase 1; p160ROCK; p160-ROCK; Rho kinase; p160 ROCK-1; renal carcinoma antigen NY-REN-35; rho-associated, coiled-coil-containing protein kinase 1; rho-associated, coiled-coil-containing protein kinase I; ROCK-I; P160ROCK; PRO0435; MGC43611; MGC131603;

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Gene ID	6093
mRNA Refseq	NM_005406
Protein Refseq	NP_005397
MIM	601702
UniProt ID	Q13464

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