

Active Recombinant Human ROCK1 Protein, GST-tagged

Cat. No. ROCK1-1480H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ROCK1 (17-535) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	17-535 aa
Description	ROCK1 is a ubiquitously expressed serine/threonine kinase that is a downstream target of the small GTPase RhoA. ROCK1 is involved in diverse cellular functions, including smooth muscle contraction, actin cytoskeleton organization, cell adhesion and motility, and gene expression. ROCK1 contributes to the development of cardiac fibrosis and induction of fibrogenic cytokines in cardiomyocytes in response to pathological stimuli. ROCK1 knockout mice exhibit reduced perivascular and interstitial fibrosis which is associated with reduced expression of a variety of extracellular matrix (ECM) proteins and fibrogenic cytokines.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	65 nmol/min/mg
Molecular Mass	~85 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl

GENE INFORMATION

Gene Name	ROCK1 Rho-associated, coiled-coil containing protein kinase 1 [Homo sapiens]
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;
Gene ID	6093
mRNA Refseq	NM_005406
Protein Refseq	NP_005397
MIM	601702
UniProt ID	Q13464

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Chromosome Location	18q11.2
Pathway	Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem;
Function	ATP binding; GTP-Rho binding; metal ion binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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