Recombinant Human ROCK2

Cat. No. ROCK2-30955TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fusion protein, corresponding to amino acids 5-554 of Human ROCK2 with an N-terminal tag, expressed by baculovirus in Sf9 insect cells.
Species	Human
ProteinLength	5-554 a.a.
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.
Biological activity	Specific activity 350 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.Contains 1 AGC-kinase C-terminal domain.Contains 1 PH domain.Contains 1 phorbol-ester/DAG-type zinc finger.Contains 1 protein kinase domain.Contains 1

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	REM (Hr1) repeat.

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;
Gene ID	9475
mRNA Refseq	NM_004850
Protein Refseq	NP_004841
MIM	604002
Uniprot ID	O75116
Chromosome Location	2p24
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;
Function	ATP binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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