

Recombinant Active Mouse ROCK2 Protein (5-554), N-His-tagged

Cat. No. ROCK2-37M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse ROCK2 (5-554) was expressed using baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	5-554
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.
Bio-activity	The specific activity of ROCK2 was determined to be 209 nmol/min/mg as per activity assay protocol.
Molecular Mass	Observed MW: ~64 kDa. Calculated MW: ~63 kDa.

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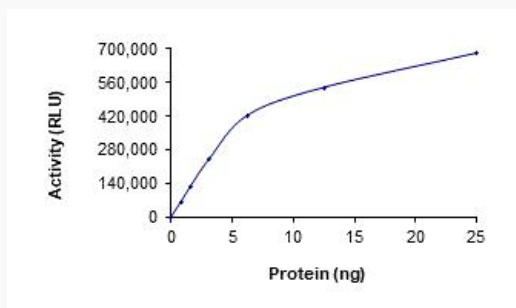
 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	The purity of ROCK2 was determined to be > 85 % by densitometry.
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. 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.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice
GENE INFORMATION	
Gene Name	Rock2 Rho-associated coiled-coil containing protein kinase 2 [Mus musculus]
Official Symbol	ROCK2
Synonyms	ROCK2; Rho-associated coiled-coil containing protein kinase 2; rho-associated protein kinase 2; p164 ROCK-2; Rho-associated coiled-coil forming kinase 2; rho-associated, coiled-coil-containing protein kinase 2; rho-associated, coiled-coil-containing protein kinase II; Rock2m; Rock-II; ROKalpha; mKIAA0619; Rho-kinase; B230113H15Rik;
Gene ID	19878
mRNA Refseq	NM_009072

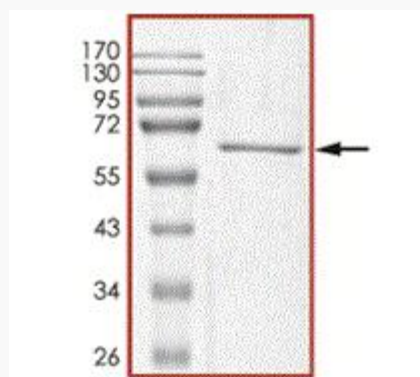
Protein Refseq

NP_033098

Activity



Purity



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