

ROCK2 recombinant protein

ROCK2, Active

CATALOG # AAA73925	HOST Sf9 insect cells	APPLICATIONS Western Blot
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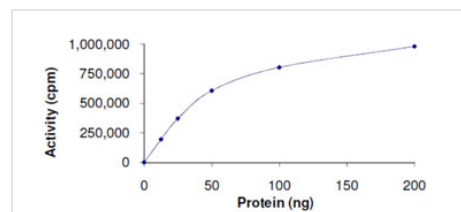
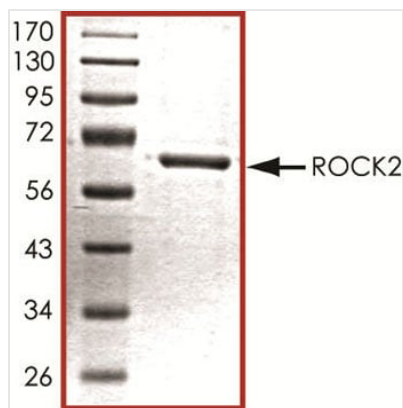
PRODUCT SYNONYMS

ROCK2; Active; KIAA0619; ROCK-II; ROKalpha; ROCK2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>95%
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Applicable Applications for ROCK2 recombinant protein	WB (Western Blot), Kinase Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES



Specific Activity

The specific activity of ROCK2 was determined to be 605nmol/min/mg as per activity assay protocol.

Purity Info

The purity of ROCK2 was determined to be >95% by densitometry, approx. MW is 66kDa

ADDITIONAL INFORMATION

Related Product Information for ROCK2 recombinant protein	Recombinant human ROCK2 (5-554) was expressed using baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is NM_004850. 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 (1). 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 (2).
Product Categories/Family for ROCK2 recombinant protein	Protein Kinases; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Inflammation; Invasion/Metastasis; Ser/Thr Kinases
References	1. Zhao, Z. et al: Rho-associated kinases play a role in endocardial cell differentiation and migration. Dev Biol. 2004 Nov 1;275(1):183-91. 2. Noma, K. et al: Physiological role of ROCKs in the cardiovascular system. Am J Physiol Cell Physiol. 2006 Mar;290(3):C661-8.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004850
Molecular Weight	~66kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rock2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73925>