abcam

Product datasheet

Recombinant human ROCK2 protein ab51423

4 Images

Description

Product name	Recombinant human ROCK2 protein
Biological activity	Specific activity 350 nmol/min/mg.
Purity	> 90 % Densitometry. Purity > 90% by densitometry. Affinity purified. Purity is lot specific. Please contact our technical Support team for details.
Expression system	Baculovirus infected Sf9 cells
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Amino acids	5 to 554

Specifications

Our **Abpromise guarantee** covers the use of **ab51423** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid
Additional notes	**ab204880** (RPS6 peptide) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 0.0038% EGTA This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

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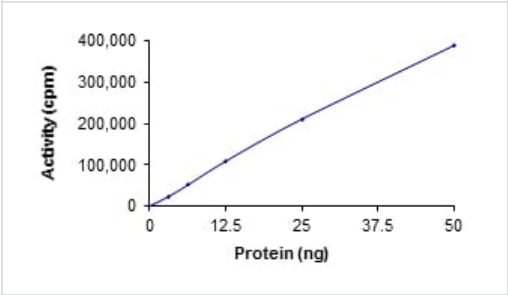
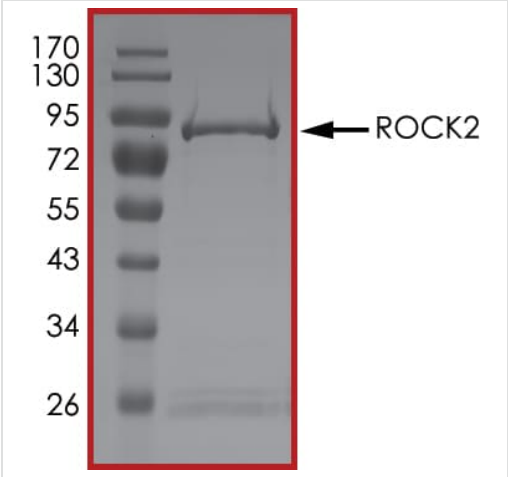
Function	Regulates the assembly of the actin cytoskeleton. Promotes formation of stress fibers and of focal adhesion complexes. Plays a role in smooth muscle contraction.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 REM (Hr1) repeat.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm. Cell membrane. Cytoplasmic, and associated with actin microfilaments and the plasma membrane.

Images



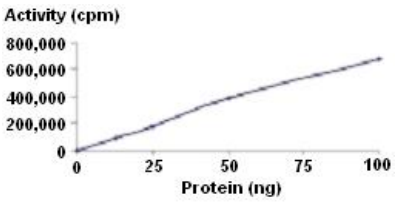
Functional Studies - Recombinant human ROCK2 protein (ab51423)

The specific activity of ROCK2 (ab51423) was determined to be 370 nmol/min/mg as per activity assay protocol



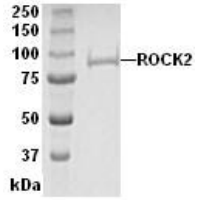
SDS-PAGE - Recombinant human ROCK2 protein (ab51423)

SDS PAGE analysis of ab51423



Functional Studies - Recombinant human ROCK2 protein (ab51423)

Kinase activity assay - specific activity 350 nmol/min/mg



SDS-PAGE - Recombinant human ROCK2 protein (ab51423)

Recombinant human ROCK2 protein (tagged)

Molecular weight 88 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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