

For Research Use Only

# ROCK1-Specific Polyclonal antibody

Catalog Number: 20247-1-AP

Featured Product

1 Publications



## Basic Information

Catalog Number:

20247-1-AP

Size:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_005406

GeneID (NCBI):

6093

UNIPROT ID:

Q13464

Full Name:

Rho-associated, coiled-coil containing protein kinase 1

Calculated MW:

158 kDa

Observed MW:

150-160 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : HeLa cells,

IHC : human lung cancer tissue,

## Background Information

ROCK1, also named as p160ROCK and NY-REN-35, belongs to the protein kinase superfamily and AGC Ser/Thr protein kinase family. ROCK1 phosphorylates and activates DAPK3, which then regulates myosin light chain phosphatase through phosphorylation of MYPT1 thereby regulating the assembly of the actin cytoskeleton, cell migration, invasiveness of tumor cells, smooth muscle contraction and neurite outgrowth. ROCK1 is required for centromere positioning and centromere-dependent exit from mitosis. It is necessary for apoptotic membrane blebbing. ROCK1 catalyzes the reaction: ATP + a protein = ADP + a phosphoprotein. The antibody is specific to ROCK1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Carlos E Pedraza	25289646	ASN Neuro	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

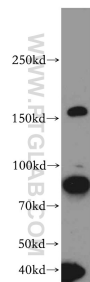
T: 4006900926

E: Proteintech-CN@ptglab.com

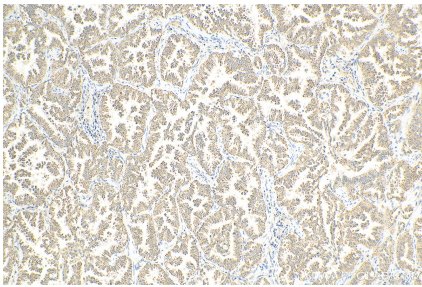
W: ptgcn.com

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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 20247-1-AP (ROCK1-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 20247-1-AP (ROCK1-Specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).