

For Research Use Only

ROCK1 Recombinant antibody

Catalog Number: 83166-5-RR



Basic Information

Catalog Number: 83166-5-RR	GenBank Accession Number: BC113114	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 6093	CloneNo.: 230423C6
Source: Rabbit	UNIPROT ID: Q13464	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: Rho-associated, coiled-coil containing protein kinase 1	
Immunogen Catalog Number: AG16317	Calculated MW: 1354 aa, 158 kDa	
	Observed MW: 150-160 kDa	

Applications

Tested Applications: WB, ELISA, IF/ICC, FC (Inrta)	Positive Controls:
Species Specificity: Human, mouse	WB: Jurkat cells, NIH/3T3 cells, HeLa cells, A431 cells, RAW 264.7 cells IF/ICC: HeLa cells,

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.

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:

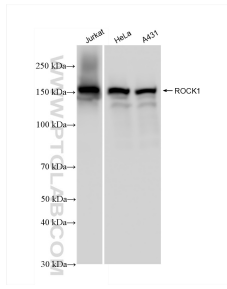
T: 4006900926

E: Proteintech-CN@ptglab.com

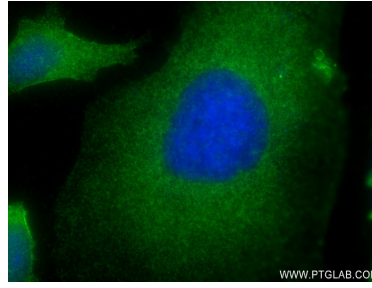
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

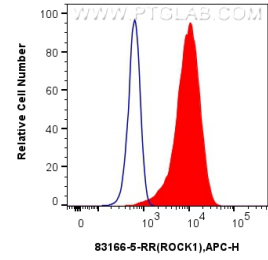
Selected Validation Data



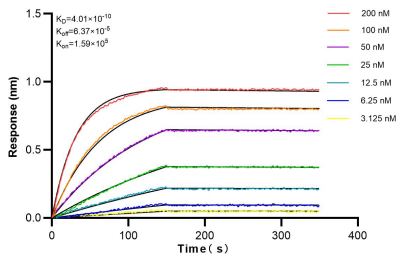
Various lysates were subjected to SDS PAGE followed by western blot with 83166-5-RR (ROCK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ROCK1 antibody (83166-5-RR, Clone: 230423C6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug ROCK1 Recombinant antibody (83166-5-RR, Clone:230423C6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83166-5-RR against Human ROCK1 were performed. The affinity constant is 0.401 nM.