

For Research Use Only

ROCK1 Monoclonal antibody

Catalog Number: 66782-1-Ig **4 Publications**



Basic Information

Catalog Number: 66782-1-Ig	GenBank Accession Number: BC113114	Purification Method: Protein G purification
Size: 150ul , Concentration: 1100 ug/ml by Nanodrop and 800 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6093	CloneNo.: 3G5E12
Source: Mouse	UNIPROT ID: Q13464	Recommended Dilutions: WB 1:1000-1:4000
Isotype: IgG1	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	Positive Controls: WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells
Cited Applications: WB, IHC	
Species Specificity: Human, Mouse, Rat	
Cited Species: human, mouse	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Shuo Yang	36326134	Food Funct	WB
Ranran Dai	31898364	J Cell Biochem	WB
Qian Ban	32913548	Am J Transl Res	WB

Storage

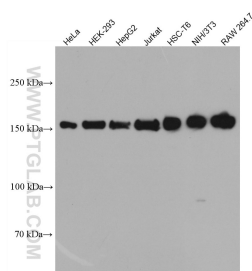
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.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 66782-1-Ig (ROCK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.