ROCK1 Monoclonal antibody

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

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number: 66782-1-Ig	**GenBank Accession Number:** BC113114	**Purification Method:** Protein G purification
Size: 1100 μg/ml	**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

Cited Applications:
WB, IHC

Species Specificity:
Human, Mouse, Rat

Cited Species:
human, mouse

Positive Controls:

WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 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.

Notable Publications

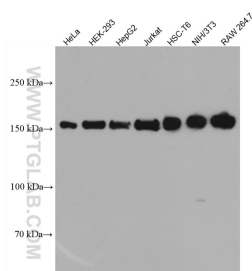| Author	Pubmed ID	Journal	Application
Shuo Yang	36326134	Food Funct	WB
Ranran Dai	31898364	J Cell Biochem	WB
Qian Ban	32913548	Am J Transl Res	WB

Storage

Storage:
Store at -20℃. 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

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.