

ROCK2 Rabbit mAb

Catalog No: #52033

Package Size: #52033-1 50ul #52033-2 100ul

Orders: order@signalwayantibody.com

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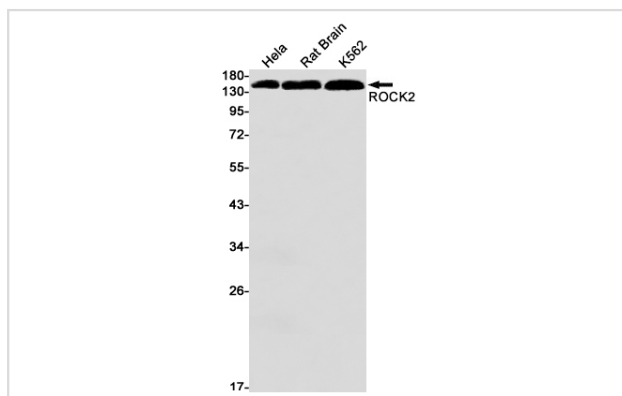
Description

Product Name	ROCK2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S01-4F1
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human ROCK2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	p164 ROCK 2; Rho kinase 2; ROCK 2; Rock II; Rock2m; ROK alpha; ROKalpha;
Accession No.	Swiss-Prot:O75116GeneID:9475
Uniprot	O75116
GeneID	9475
Calculated MW	Calculated MW: 161 kDa; Observed MW: 161 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

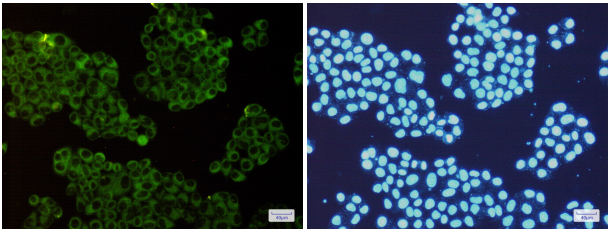
WB: 1/2000; ICC/IF: 1/50

Images



Western blot detection of ROCK2 in HeLa, Rat Brain, K562 cell lysates using ROCK2 Rabbit mAb(1:1000 diluted). Predicted band size: 161kDa. Observed band size: 161kDa.

Immunofluorescence of ROCK2(green) in HeLa cells using ROCK2 Rabbit mAb at dilution 1/200, and DAPI(blue)



Background

Swiss-Prot Acc.O75116. Protein kinase which is a key regulator of actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of ADD1, BRCA2, CNN1, EZR, DPYSL2, EP300, MSN, MYL9/MLC2, NPM1, RDX, PPP1R12A and VIM. Phosphorylates SORL1 and IRF4. Acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. Positively regulates the activation of p42/MAPK1-p44/MAPK3 and of p90RSK/RPS6KA1 during myogenic differentiation. Plays an important role in the timely initiation of centrosome duplication. Inhibits keratinocyte terminal differentiation. May regulate closure of the eyelids and ventral body wall through organization of actomyosin bundles. Plays a critical role in the regulation of spine and synaptic properties in the hippocampus. Plays an important role in generating the circadian rhythm of the aortic myofilament Ca²⁺ sensitivity and vascular contractility by modulating the myosin light chain phosphorylation.

Note: This product is for in vitro research use only