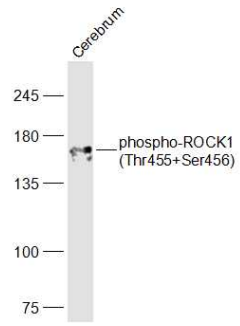
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

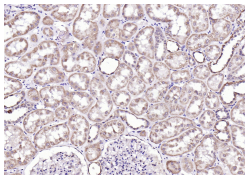
phospho-ROCK1 (Thr455+Ser456) Rabbit pAb

Catalog Number:	bs-4630R
Target Protein:	phospho-ROCK1 (Thr455+Ser456)
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)
Reactivity:	Human, Mouse (predicted:Rat, Rabbit, Pig, Dog, Horse)
Predicted MW:	158 kDa
Entrez Gene:	6093
Swiss Prot:	Q13464
Source:	KLH conjugated synthesised phosphopeptide derived from human ROCK1 around the phosphorylation site of Thr455+Ser456: CR(p-T)(p-S)N.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. [provided by RefSeq].

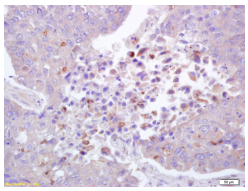
VALIDATION IMAGES



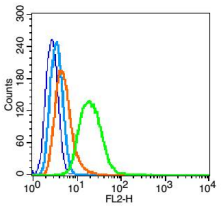
Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-phospho-ROCK1(Thr455+Ser456) (bs-4630R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 158 kD Observed band size: 158 kD



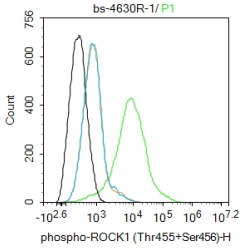
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ROCK1 (Thr455+Ser456)) Polyclonal Antibody, Unconjugated (bs-4630R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



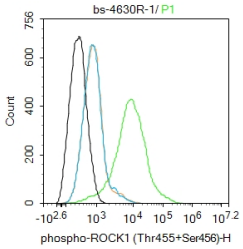
Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-ROCK1(Thr455/Ser456) Polyclonal Antibody, Unconjugated(bs-4630R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue): Hela (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti- phospho-ROCK1(Thr455+Ser456) antibody(bs-4630R), Dilution:1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Blank control:MCF-7. Primary Antibody (green line): Rabbit Anti-phospho-ROCK1 (Thr455+Ser456) antibody (bs-4630R) Dilution: 1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）： Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:MCF-7. Primary Antibody (green line): Rabbit Anti-phospho-ROCK1 (Thr455+Ser456) antibody (bs-4630R) Dilution: 1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）： Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=12.8] Xuening Pang. et al. LDH nanoparticles-doped cellulose nanofiber scaffolds with aligned microchannels direct high-efficiency neural regeneration and organized neural circuit remodeling through RhoA/Rock/Myosin II pathway. BIOMATERIALS. 2025 Mar;314:122873 WB ; Mouse . 39369670

[IF=6.7] Zhizhongbin Wu. et al. Long term Coptidis Rhizoma intake induce gastrointestinal emptying inhibition and colon barrier weaken via bitter taste receptors activation in mice. PHYTOMEDICINE. 2024 Nov;:156292 WB ; Human . 39631296

[IF=6.162] Zhou Y et al. ROCK2 Confers Acquired Gemcitabine Resistance in Pancreatic Cancer Cells by Upregulating Transcription Factor ZEB1. Cancers (Basel). 2019 Nov 27;11(12). pii: E1881. WB ; Human . 31783584

[IF=4.566] Xu Jiahui. et al. Temperature and Growth Selection Effects on Proliferation, Differentiation, and Adipogenic Potential of Turkey Myogenic Satellite Cells Through Frizzled-7-Mediated Wnt Planar Cell Polarity Pathway. FRONT PHYSIOL. 2022 May;0:889 WB ; Chicken . 35677087

[IF=4.15] Wang, Nan, et al. "Vascular endothelial growth factor stimulates endothelial differentiation from mesenchymal stem cells via Rho/myocardin-related transcription factor-A signaling pathway." The International Journal of Biochemistry & Cell Biology (2013). WB ; ="Rat" . 23624342