

Product Name: KD-Validated ROCK2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01795

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 160.9kDa

Antigen Information

Gene Name	ROCK2
Alternative Names	ROCK2; Rho Associated Coiled-Coil Containing Protein Kinase 2; Rho-Associated, Coiled-Coil-Containing Protein Kinase II; Rho-Associated Protein Kinase 2; P164 ROCK-2; EC 2.7.11.1; ROCK-II; Rho-Associated, Coiled-Coil-Containing Protein Kinase 2; Rho Kinase 2; EC 2.7.11; KIAA0619
Gene ID	9475.0
SwissProt ID	O75116
Immunogen	A synthesized peptide derived from human ROCK2

Background

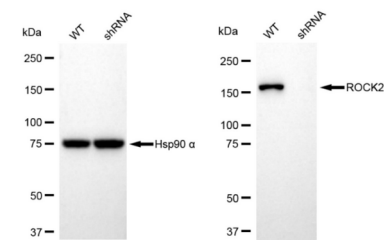
The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis, smooth muscle contraction, the

formation of actin stress fibers and focal adhesions, and the activation of the c-fos serum response element. This protein, which is an isozyme of ROCK1 is a target for the small GTPase Rho. [provided by RefSeq, Jul 2008]

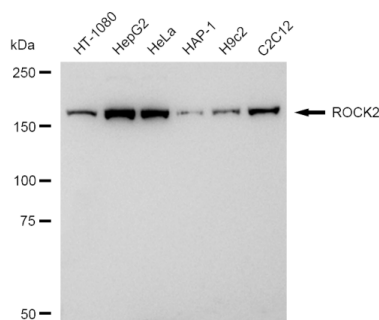
Research Area

Cell Biology,Signal Transduction,Cancer

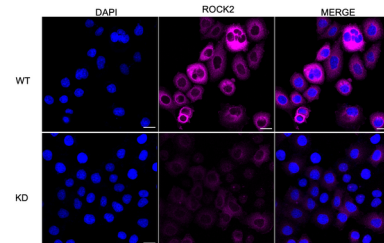
Image Data



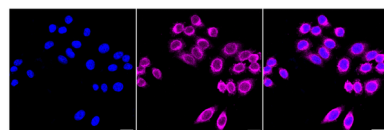
Western blotting analysis using ROCK2 antibody (KVA01795). ROCK2 expression in wild type (WT) and ROCK2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ROCK2 antibody (KVA01795, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



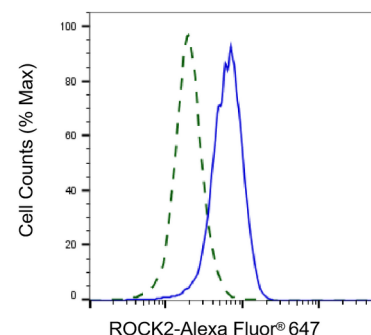
Western blotting analysis using ROCK2 antibody (KVA01795). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ROCK2 antibody (KVA01795, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



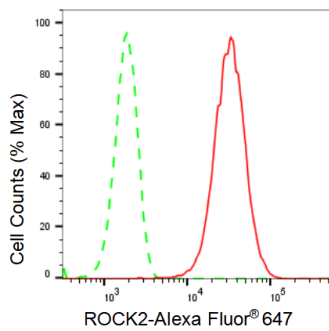
Immunocytochemical staining of HeLa cells using ROCK2 antibody (KVA01795, 1:1,000), Top panel: wild-type (WT); Bottom panel: ROCK2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; ROCK2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with ROCK2 antibody (KVA01795, 1:1,000). Nuclei were stained blue with DAPI; ROCK2 cochaperone 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of ROCK2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ROCK2 antibody (KVA01795, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of ROCK2 expression in HepG2 cells using ROCK2 antibody (KVA01795, 1:2,000). Green, isotype control; red, ROCK2.