Anti-ROCK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013066

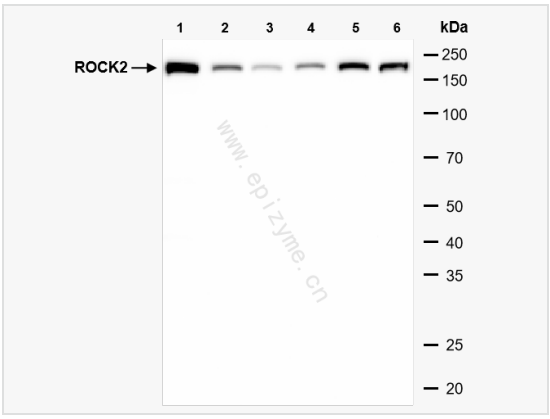
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	21L73M16
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ROCK2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ROCK2 Rabbit mAb [21L73M16] is for research use only and not for use in diagnostic or therapeutic procedures.

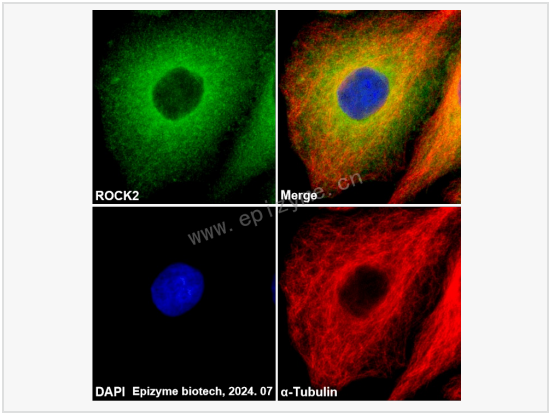
Protein Information

Synonyms	coiled-coil-containing protein kinase 2, KIAA0619, p164 ROCK 2, p164 ROCK-2, Rho associated coiled coil containing protein kinase 2, Rho associated protein kinase 2, Rho associated, coiled coil containing protein kinase II, Rho kinase 2, Rho-associated, Rho-associated protein kinase 2, ROCK 2, Rock II, Rock2, ROCK2_HUMAN, Rock2m, ROK alpha, ROKalpha.
Calculated MW	Calculated MW: 161 kDa; Observed MW: 161 kDa
Uniprot ID	O75116
Gene ID	9475
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]
Cellular Location	Cytoplasm. Cell membrane. Cytoplasmic, and associated with actin microfilaments and the plasma membrane.

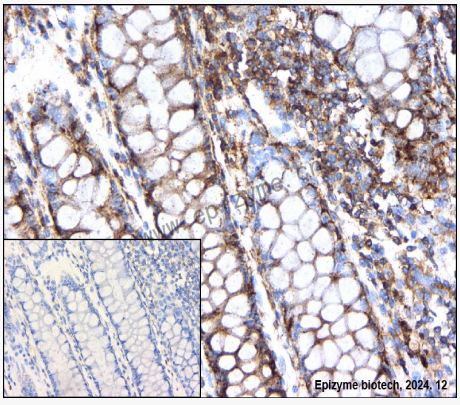
Validation Images



Western Blot - Anti-ROCK2 Rabbit mAb [21L73M16]
All lanes: R013066 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 5: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 6: Balb/c mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 161 kDa
Observed band size: 161 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ROCK2 Rabbit mAb [21L73M16]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013066 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-ROCK2 Rabbit mAb [21L73M16]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013066 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.