Anti-ROCK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013066

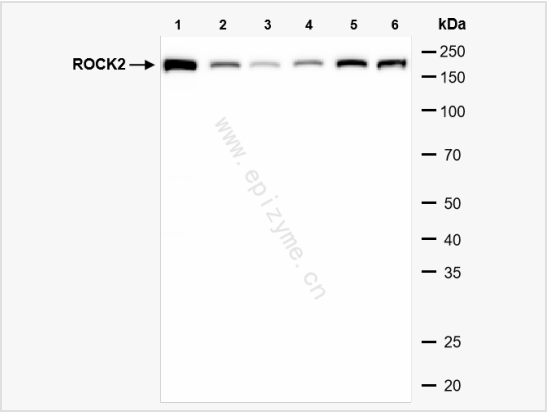
Product Information

Application	WB, IHC-P, IF (Cell)/ICC, ELISA, IF (Tissue-P)
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:50~1:100
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.

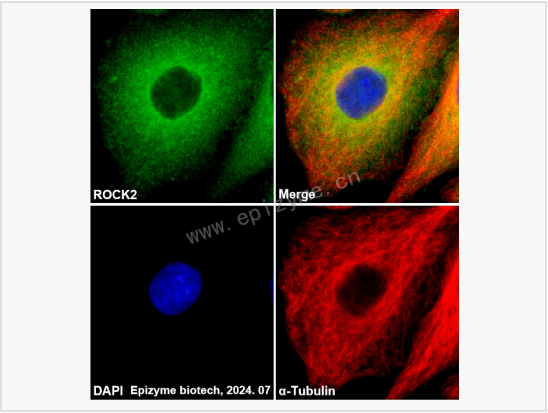
Protein Information

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
Primary Accession	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.

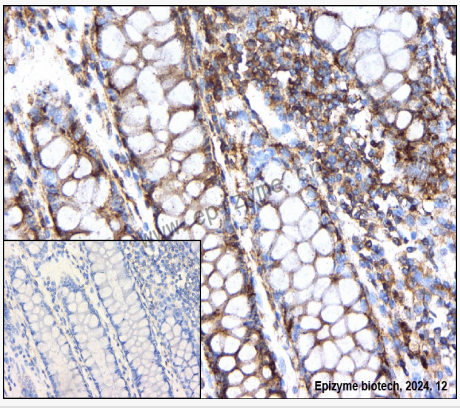
Validation Images



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 0.1% Triton X-100 for 5 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.