




Rabbit Anti-ROCK2 antibody

SL1205R

Product Name:	ROCK2
Chinese Name:	Rho相关蛋白激酶2抗体
Alias:	p164 ROCK 2; p164 ROCK-2; Rho associated coiled coil containing protein kinase 2; Rho associated protein kinase 2; Rho kinase 2; ROCK 2; Rock II; Rock2m; ROK alpha; ROKalpha; coiled-coil-containing protein kinase 2; KIAA0619; Rho associated, coiled coil containing protein kinase II; Rho-associated; Rho-associated protein kinase 2; Rock2; ROCK2 HUMAN.
文献引用  :	<p>Specific References(2) SL1205R has been referenced in 2 publications.</p> <p>[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.</p> <p>PubMed:23624342</p> <p>[IF=4.19]He, Hongpeng, et al. "Transcription of HOTAIR is regulated by RhoC-MRTF-A-SRF signaling pathway in human breast cancer cells." Cellular Signalling (2017).WB;Human.</p> <p>PubMed:28069441</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	161kDa

Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ROCK2:1001-1300/1388
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>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].</p> <p>Function: Regulates the assembly of the actin cytoskeleton. Promotes formation of stress fibers and of focal adhesion complexes. Plays a role in smooth muscle contraction.</p> <p>Subcellular Location: Cytoplasm. Cell membrane. Cytoplasmic, and associated with actin microfilaments and the plasma membrane.</p> <p>Post-translational modifications: Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation at Tyr-722 reduces its binding to RHOA and is crucial for focal adhesion dynamics. Dephosphorylation by PTPN11 stimulates its RHOA binding activity. Cleaved by granzyme B during apoptosis. This leads to constitutive activation of the kinase and membrane blebbing.</p> <p>Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 REM (Hr1) repeat.</p> <p>SWISS: O75116</p> <p>Gene ID: 9475</p>

Database links:

[Entrez Gene: 9475](#)Human

[Entrez Gene: 19878](#)Mouse

[Entrez Gene: 25537](#)Rat

[Oimim: 604002](#)Human

[SwissProt: O75116](#)Human

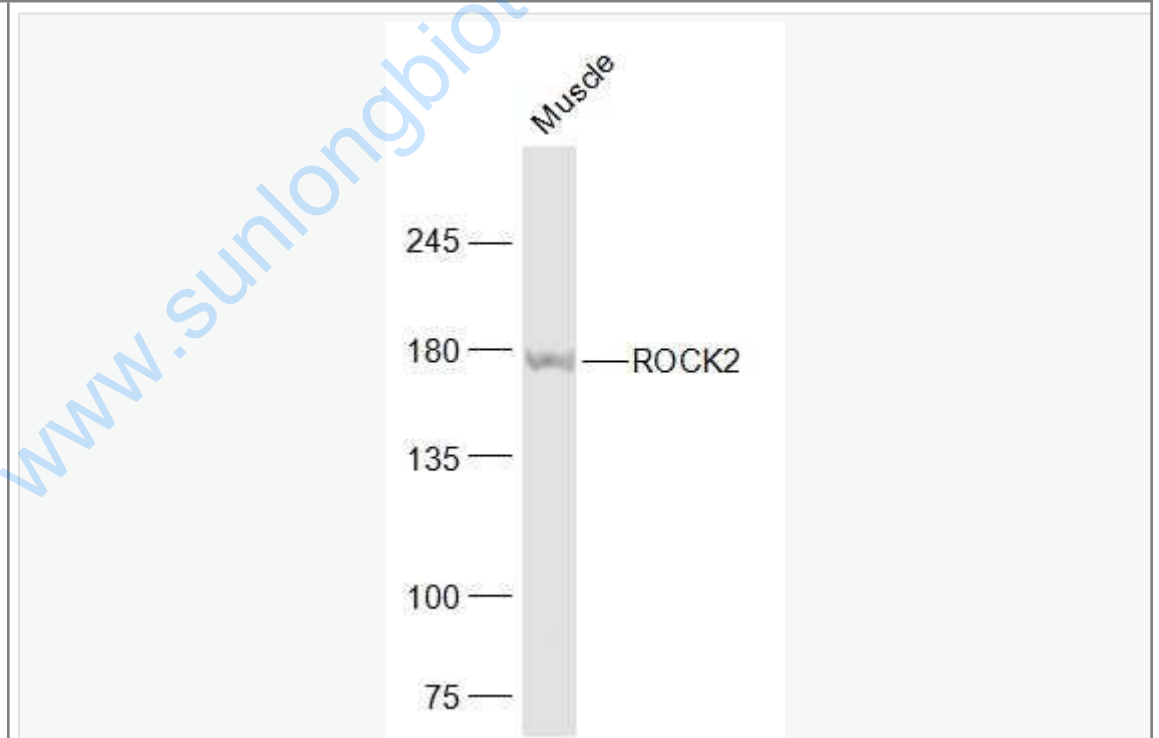
[SwissProt: P70336](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

ROCK2 (Rho kinase alpha) 是 ROCK1 的同工酶。是一个丝/苏氨酸激酶，可调节 cell factor, 平滑肌收缩和肌动蛋白的形成。

Picture:



Sample:

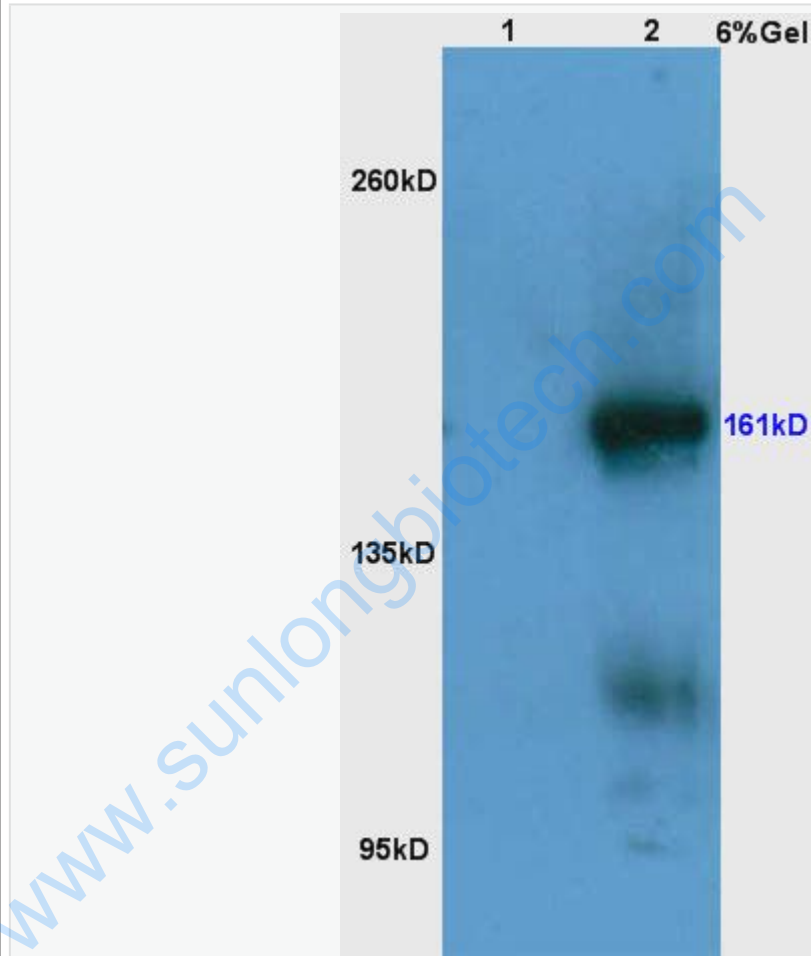
Muscle (Mouse) Lysate at 40 ug

Primary: Anti-ROCK2 (SL1205R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 161 kD

Observed band size: 161 kD



Sample:

Lane1: Brain (Rat) Lysate at 30 ug

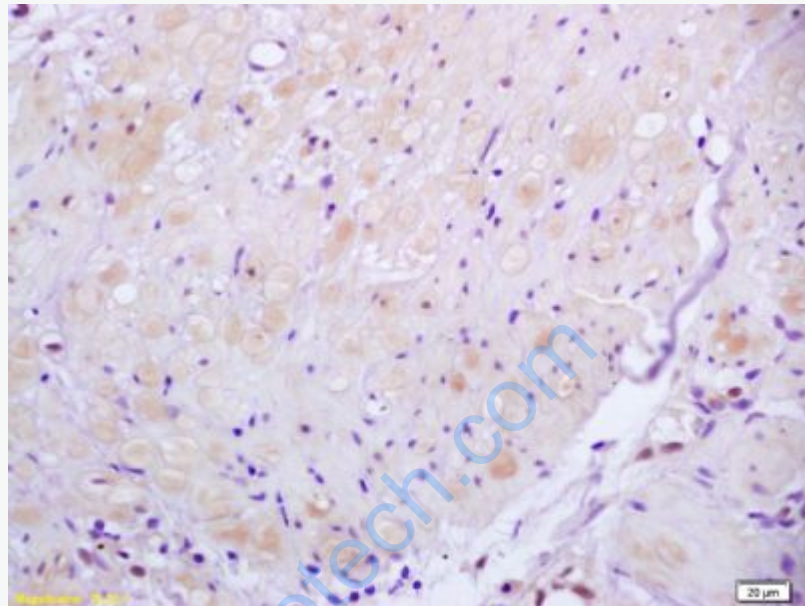
Lane2: Colon carcinoma (Human) Lysate at 30 ug

Primary: Anti-ROCK2 (SL1205R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1205R) at 1: 3000 dilution;

Predicted band size : 161kD

Observed band size : 161kD



Tissue/cell: human gastric 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-ROCK2 Polyclonal Antibody, Unconjugated(SL1205R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining