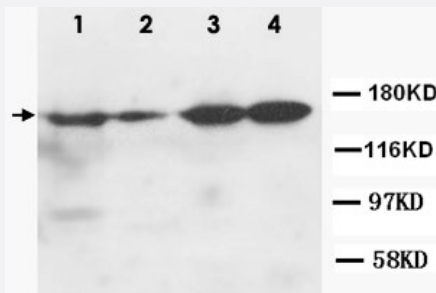


ROCK2 polyclonal antibody

Catalog # PAB12328

Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blot analysis of ROCK2 expression from cell extracts with ROCK2 polyclonal antibody (Cat # PAB12328).

Lane 1 : MCF-7 whole cell lysate.

Lane 2 : HeLa whole cell lysate.

Lane 3 : smmc whole cell lysate.

Lane 4 : HT1080 whole cell lysate.

Lane 3 : MM453 whole cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of ROCK2 on formalin fixed, paraffin embedded human intestinal cancer with ROCK2 polyclonal antibody (Cat # PAB12328).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ROCK2.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human ROCK2.
Host	Rabbit
Theoretical MW (kDa)	160.9
Reactivity	Human, Mouse, Rat
Specificity	Identical to the related rat and mouse sequence.

Form	Lyophilized
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of ROCK2 expression from cell extracts with ROCK2 polyclonal antibody (Cat # PAB12328).

Lane 1 : MCF-7 whole cell lysate.

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of ROCK2 on formalin fixed, paraffin embedded human intestinal cancer with ROCK2 polyclonal antibody (Cat # PAB12328).

Gene Info — ROCK2

Entrez GeneID	9475
Gene Name	ROCK2
Gene Alias	KIAA0619
Gene Description	Rho-associated, coiled-coil containing protein kinase 2
Omim ID	604002

Gene Ontology

[Hyperlink](#)

Gene Summary

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]

Other Designations

OTTHUMP00000195104

Publication Reference

- [Targeted disruption of the mouse rho-associated kinase 2 gene results in intrauterine growth retardation and fetal death.](#)

Thumkeo D, Keel J, Ishizaki T, Hirose M, Nonomura K, Oshima H, Oshima M, Taketo MM, Narumiya S.
Molecular and Cellular Biology 2003 Jul; 23(14):5043.

Application: WB-Ti, Mouse, Brains, Embryos

- [Localization of the gene coding for ROCK II/Rho kinase on human chromosome 2p24.](#)

Takahashi N, Tuiki H, Saya H, Kaibuchi K.
Genomics 1999 Jan; 55(2):235.

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)
- [TGF-beta signaling pathway](#)
- [Vascular smooth muscle contraction](#)
- [Wnt signaling pathway](#)

Disease

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Neoplasm Metastasis](#)
- [Pre-Eclampsia](#)