

**ROCK2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12635****Specification**

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**ROCK2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O75116</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	161kDa KDa

**ROCK2 Antibody - Additional Information****Gene ID** 9475**Other Names**

Rho-associated protein kinase 2, 2.7.11.1, Rho kinase 2, Rho-associated, coiled-coil-containing protein kinase 2, Rho-associated, coiled-coil-containing protein kinase II, ROCK-II, p164 ROCK-2, ROCK2, KIAA0619

**Reconstitution & Storage**

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Precautions**

ROCK2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ROCK2 Antibody - Protein Information****Name** ROCK2**Synonyms** KIAA0619**Function**

Protein kinase which is a key regulator of actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of ADD1, BRCA2, CNN1, EZR, DPYSL2, EP300, MSN, MYL9/MLC2, NPM1, RDX, PPP1R12A and VIM. Phosphorylates SORL1 and IRF4. Acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. Positively regulates the activation of p42/MAPK1- p44/MAPK3 and of p90RSK/RPS6KA1 during myogenic differentiation. Plays an important role in the timely initiation of centrosome duplication. Inhibits keratinocyte terminal differentiation. May regulate closure of the eyelids and ventral body wall through organization of actomyosin bundles. Plays a critical role in the regulation of spine and synaptic properties in the hippocampus. Plays an important role in generating the circadian rhythm of the aortic myofilament Ca(2+) sensitivity and vascular contractility by modulating the myosin light chain phosphorylation.

**Cellular Location**

Cytoplasm. Cell membrane; Peripheral membrane protein. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Cytoplasmic, and associated with actin microfilaments and the plasma membrane.

**Tissue Location**

Expressed in the brain (at protein level).

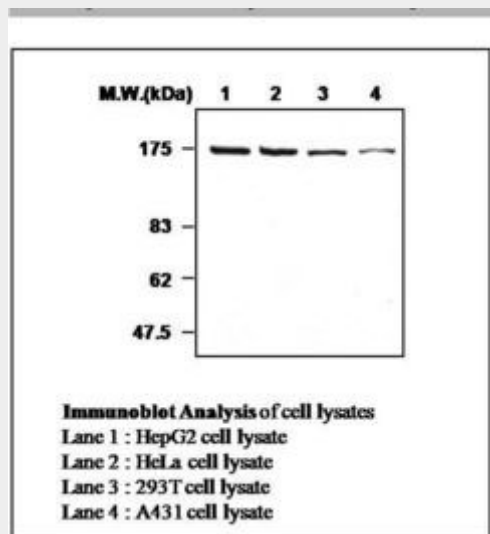
**Volume**

50  $\mu$ l

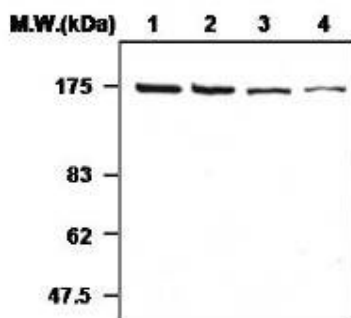
**ROCK2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ROCK2 Antibody - Images**

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**Immunoblot Analysis of cell lysates**

Lane 1 : HepG2 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : 293T cell lysate

Lane 4 : A431 cell lysate

Western blot of various cell lysates

### ROCK2 Antibody - Background

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### ROCK2 Antibody - References

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- Ishikawa K.,et al.DNA Res. 5:169-176(1998).
- Hillier L.W.,et al.Nature 434:724-731(2005).
- Kawano Y.,et al.J. Cell Biol. 147:1023-1038(1999).
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