

## **ROCK2 Antibody**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51921

## **Specification**

### **ROCK2 Antibody - Product Information**

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB, E
O75116
Human, Mouse, Rat
Rabbit
Polyclonal
171 KDa

# **ROCK2 Antibody - Additional Information**

#### **Gene ID 9475**

#### **Other Names**

Rho-associated protein kinase 2, 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

# **Dilution**

WB~~1:1000

E~~N/A

#### **Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

## **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).

# **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 Cytomety
- Cell Culture

## **ROCK2 Antibody - Images**

## **ROCK2 Antibody - Background**

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## **ROCK2 Antibody - References**

Takahashi N.,et al.Genomics 55:235-237(1999). 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). Sebbagh M.,et al.J. Exp. Med. 201:465-471(2005).