

Anti-ROCK2 Antibody
Rabbit polyclonal antibody to ROCK2
Catalog # AP60897**Specification**

Anti-ROCK2 Antibody - Product Information

Application	WB
Primary Accession	O75116
Other Accession	P70336
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	160900

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

KIAA0619; 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

Target/Specificity

Recognizes endogenous levels of ROCK2 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

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

Anti-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

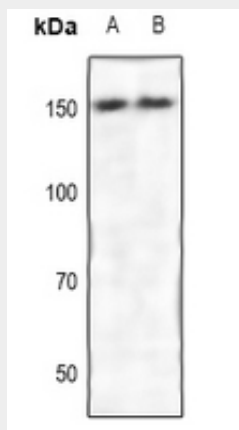
Expressed in the brain (at protein level).

Anti-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](#)

Anti-ROCK2 Antibody - Images



Western blot analysis of ROCK2 expression in mouse liver (A), rat liver (B) whole cell lysates.

Anti-ROCK2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ROCK2. The exact sequence is proprietary.