

KD-Validated Anti-ROCK2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1029

Product Information

Application	WB, FC, ICC
Primary Accession	Q75116
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2030
Calculated MW	160900
Gene Name	ROCK2
Aliases	ROCK2; Rho Associated Coiled-Coil Containing Protein Kinase 2; Rho-Associated, Coiled-Coil-Containing Protein Kinase II; Rho-Associated Protein Kinase 2; P164 ROCK-2; EC 2.7.11.1; ROCK-II; Rho-Associated, Coiled-Coil-Containing Protein Kinase 2; Rho Kinase 2; EC 2.7.11; KIAA0619
Immunogen	A synthesized peptide derived from human ROCK2

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

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).

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