

## Anti-ROCK2 Antibody (8Y884)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	8Y884
Purification:	Affinity-chromatography

## Applications

Verified Activity:	1. Western Blot -Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, L02 whole cell lysate, HepG2 whole cell lysate, Mouse Brain whole cell lysate, Rat Brain whole cell lysate -All lanes: ROCK2 antibody at 1:1000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 161 kDa -Observed band size: 161 kDa
	2. Immunofluorescence staining of Hela Cells with TMAH-01048 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA, WB, IF
Recommended	WB:1:500-1:5000; IF:1:20-1:200.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human ROCK2
Antigen Species:	Human
Gene ID:	9475
Uniprot ID:	O75116
Synonyms:	Rho-associated protein kinase 2;KIAA0619;Rho kinase 2;p164 ROCK-2;EC 2.7.11.1;ROCK-II;Rho-associated, coiled-coil-containing protein kinase 2;Rho-associated, coiled-coil-containing protein kinase II;ROCK 2
Biology Area:	Cancer, Cell biology, Signal transduction

## Research Background

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,

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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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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