



## Datasheet for ABIN6256005 **anti-ROCK2 antibody (pTyr722)**



[Go to Product page](#)

### 1 Image

#### Overview

Quantity:	100 µL
Target:	ROCK2
Binding Specificity:	pTyr722
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROCK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

#### Product Details

Immunogen:	A synthesized peptide derived from human ROCK2 around the phosphorylation site of Tyr722.
Isotype:	IgG
Specificity:	Phospho-ROCK2 (Tyr722) Antibody detects endogenous levels of ROCK2 only when phosphorylated at Tyr722.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

#### Target Details

Target:	ROCK2
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## Target Details

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Alternative Name: [ROCK2 \(ROCK2 Products\)](#)

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Background: Description: 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<sup>2+</sup> sensitivity and vascular contractility by modulating the myosin light chain phosphorylation.

Gene: ROCK2

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Molecular Weight: 165kDa

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Gene ID: 9475

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UniProt: [O75116](#)

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Pathways: [Microtubule Dynamics](#), [WNT Signaling](#), [Tube Formation](#)

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## Application Details

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Application Notes: WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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## Handling

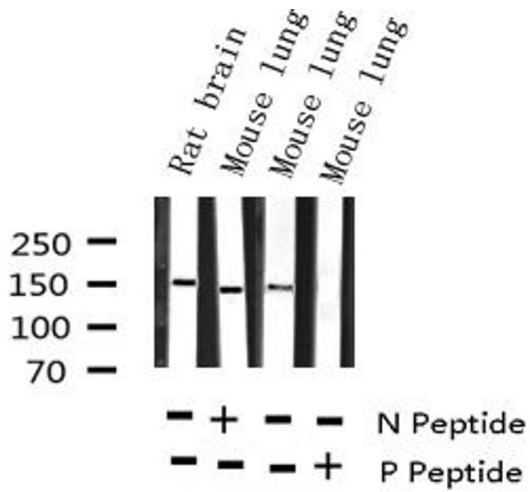
should be handled by trained staff only.

Storage: -20 °C

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

Expiry Date: 12 months

## Images



### Western Blotting

**Image 1.** Western blot analysis of Phospho-ROCK2 (Tyr722) antibody expression in Rat brain and mouse lung tissues lysates.